

LIBRARY
OF THE
UNIVERSITY
OF ILLINOIS

C
C12nh H

1947/48-1951/52

OAK ST LIBRARY

Return this book on or before the
Latest Date stamped below.

University of Illinois Library

MAY 16 1961

JUN 12 1961

L161—H41

CIRCULAR OF INFORMATION

FOR THE YEAR 1947-1948

HUMBOLDT STATE COLLEGE

A FOUR-YEAR COLLEGE

ACCREDITED BY THE NORTHWEST ASSOCIATION OF SECONDARY AND HIGHER SCHOOLS,
THE UNIVERSITY OF CALIFORNIA, AND THE STATE DEPARTMENT OF EDUCATION

STATE COLLEGES OF CALIFORNIA

California Polytechnic.....	San Luis Obispo
Chico State College.....	Chico
Fresno State College.....	Fresno
Humboldt State College.....	Arcata
San Diego State College.....	San Diego
San Francisco State College.....	San Francisco
San Jose State College.....	San Jose

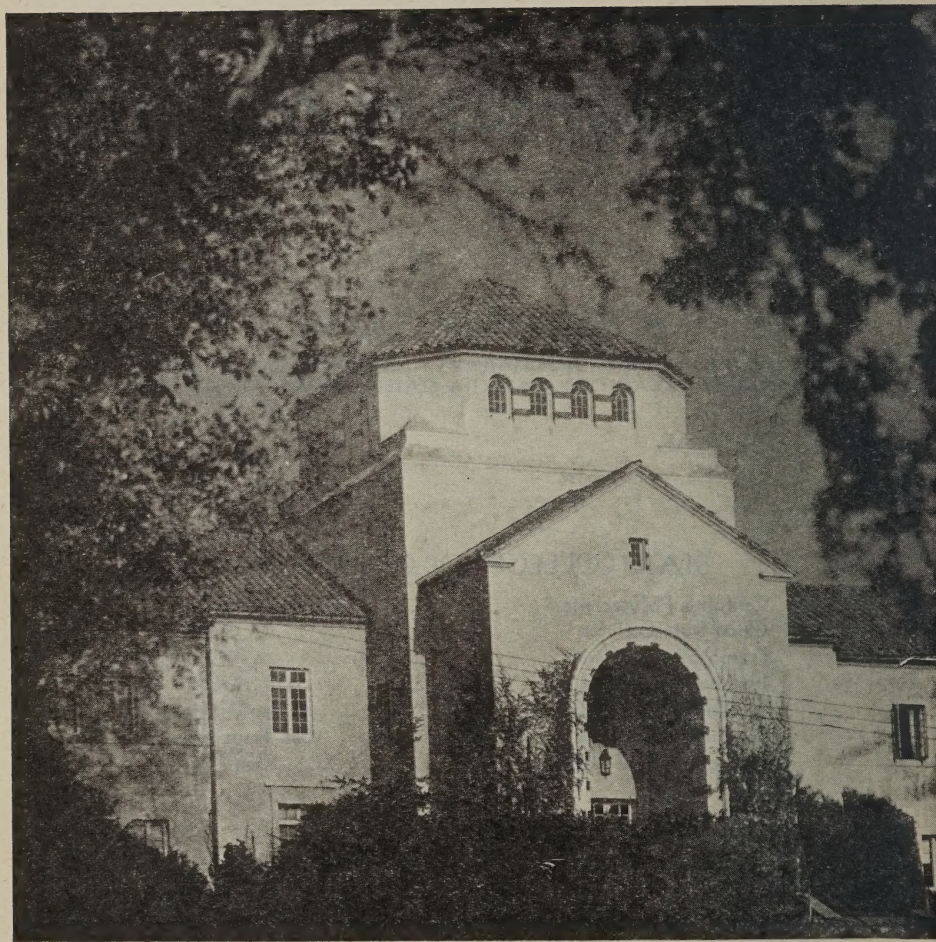
Vol. XXXII, No. 4

JUNE 1, 1947

THE LIBRARY OF THE

MAR 17 1949

UNIVERSITY OF ILLINOIS



ADMINISTRATION BUILDING

THE LIBRARY OF THE

MAR 13 1940

UNIVERSITY OF CALIFORNIA

C12nd H
1947/48-1951/52

1947

1948

JULY

S	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	--	--

AUGUST

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	--	--	--	--	--	--

SEPTEMBER

S	M	T	W	T	F	S
--	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	--	--	--	--

OCTOBER

S	M	T	W	T	F	S
--	--	--	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	--

NOVEMBER

S	M	T	W	T	F	S
--	--	--	--	--	--	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	--	--	--	--	--	--

DECEMBER

S	M	T	W	T	F	S
--	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	--	--	--

JANUARY

S	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FEBRUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	--	--	--	--	--	--

MARCH

S	M	T	W	T	F	S
--	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	--	--	--

APRIL

S	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	--

MAY

S	M	T	W	T	F	S
--	--	--	--	--	--	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	--	--	--	--	--

JUNE

S	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	--	--	--

JULY

S	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	--	--	--	--

SEPTEMBER

S	M	T	W	T	F	S
--	--	--	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	--	--

OCTOBER

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

NOVEMBER

S	M	T	W	T	F	S
--	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	--	--	--	--

DECEMBER

S	M	T	W	T	F	S
--	--	--	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	--

ACADEMIC CALENDAR—1947-48

FALL SEMESTER, 1947

September 1st	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.
Pre-Registration Schedule (For Freshmen and New Students)	Monday, Tuesday, Wednesday, and Thursday, September 8th, 9th, 10th and 11th
Monday, September 8th	
Freshman Assembly	8.30 a.m., College Auditorium
College Aptitude Test (Initials A-L)	9.15 a.m., Nelson Hall Commons
Speech Test (Initials M-Z, by appointment)	9.15 a.m. (continuous until finished)
English A Test (All Freshmen)	1.00 p.m., Auditorium
Iowa Silent Reading Test (Initials (M-Z)	4.00 p.m.
Tuesday, September 9th	Admission Day Activities
Wednesday, September 10th	
College Aptitude Test (Initials M-Z)	9.00 a.m., Nelson Hall Commons
Speech Test (Initials A-L by appointment)	8.30 a.m. (continuous until finished)
Vocational Preference Test (All Freshmen and new students)	12.30 p.m., College Auditorium
Iowa Silent Reading Test (Initials A-L)	4.00 p.m.
Medical Examinations	By appointment Monday, Wednesday, Thursday and Friday, September 8th, 10th, 11th, 12th
Pre-programming	Thursday, September 11th
Former students and transfers	8.00 a.m.-12.00 m.
Entering Freshmen	1.00 p.m.-4.00 p.m.
Registration Period	Thursday through Saturday, September 11th, 12th and 13th
First-semester Freshmen (A-M)	Friday, 9.00 a.m. to 12.00 m.
(N-Z)	Friday, 1.00 p.m. to 4.00 p.m.
Second semester Freshmen	Friday, 1.00 p.m. to 4.00 p.m.
Juniors	Friday, 9.00 a.m. to 4.00 p.m.
Sophomores (A-M)	Saturday, 9.00 a.m. to 12.00 m.
Sophomores (N-Z)	Saturday, 1.00 to 4.00 p.m.
Seniors	Saturday, 9.00 a.m. to 4.00 p.m.
Orientation Day	Monday, September 15th
Instruction Begins	Tuesday, September 16th
Last Day for Program Changes	Friday, October 3d
Mid-Term Warning Notices	Friday, November 7th
Armistice Day	Tuesday, November 11th
Thanksgiving Recess	Thursday, November 27th-Sunday, November 30th
Christmas Holidays	Saturday, December 20th-Sunday, January 4th
Semester Examinations	Monday, January 19th, through Friday, January 23d

SPRING SEMESTER, 1948

January 19th-----	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.
Pre-Registration Schedule----- (For Freshmen and New Students)	Thursday, Friday, and Saturday, January 29th, 30th, and 31st
Thursday, January 29th	
Freshman Assembly-----	8.30 a.m., College Auditorium
College Aptitude Test----- (Initials A-L)	9.15 a.m., Nelson Hall Commons
Speech Tests----- (Initials M-Z by appointment)	9.15 a.m. (continuous until finished)
English A Test----- (All Freshmen)	1.00 p.m., Auditorium
Iowa Silent Reading Test----- (Initials M-Z)	4.00 p.m.
Friday, January 30th	
College Aptitude Test----- (Initials M-Z)	9.00 a.m., Nelson Hall Commons
Speech Tests----- (Initials A-L by appointment)	8.30 a.m. (continuous until finished)
Vocational Preference Test----- (All Freshmen and New Students)	12.30 p.m., College Auditorium
Iowa Silent Reading Test----- (Initials A-L)	4.00 p.m.
Medical Examinations-----	By appointment Thursday, Friday, Monday, and Tuesday, January 29th, 30th, February 2d and 3d
Pre-Programming-----	Monday, February 2d
Former Students and Transfers-----	8.00 a.m. to 12.00 m.
Entering Freshmen-----	1.00 p.m. to 4.00 p.m.
Registration Period-----	Tuesday, Wednesday, February 3d and 4th
Sophomores-----	Tuesday, 9.00 a.m. to 12.00
Juniors-----	Tuesday, 1.00 p.m. to 4.00 p.m.
Seniors and Second-semester Freshmen-----	Wednesday, 9.00 a.m. to 12.00 m.
First-semester Freshmen-----	Wednesday, 1.00 p.m. to 4.00 p.m.
Instruction Begins-----	Thursday, February 5th
Last Day for Program Changes-----	Friday, February 28th
Mid-Term Warning Notices-----	Friday, April 9th
Spring Recess-----	Saturday, March 20th-Sunday, March 28th
Memorial Day-----	Monday, May 31st
Semester Examinations-----	Monday, June 7th, through Friday, June 11th
Commencement-----	Friday, June 11th

SUMMER SESSION, 1948

(TENTATIVE DATES)

June 21st-July 30th

POST SESSION

August 4th-August 27th

Note: No new student will be permitted to register unless his transcripts are on file in proper order, and until he has taken the personnel tests outlined above.

TABLE OF CONTENTS

	Page
CALENDARS	
July, 1947-December, 1948	3
Academic	4
TABLE OF CONTENTS	6
NOTE TO THE PROSPECTIVE STUDENT	
A Word about the College	8
A Word about this Catalog	8
THE COLLEGE	
Location	10
Physical Equipment	10
Historical Note	11
STUDENT LIFE	
Living Accommodations	14
Student Organizations	14
Publications	14
Social Life	16
Athletics and Recreation	17
Music and Drama	18
Counseling	19
COMMUNITY RELATIONS	
Placement Service	21
Community Service	21
Extension Courses	21
Alumni Associations	21
ADMISSION TO THE COLLEGE	
Requirements for Admission	23
Admission with Advanced Standing	24
Admission to the Graduate Division	24
Transfer to Other Institutions	25
Subject A	25
College Aptitude Test	25
Registration	26
Summer Session	26
ACADEMIC REGULATIONS	
Unit of Credit	27
Classification of Students	27
Marking System	27
Normal Program	28
Class Enrollment and Attendance	28
Changes of Program	29
Withdrawal from College	29
Reports to Students	29
Credit by Extension	29
Probation and Disqualification	30

TABLE OF CONTENTS—Continued

	Page
FEES AND EXPENSES	
Fees	31
Refunds	31
Summary of Expenses for Regular Students	32
Student Employment Service	32
HONORS, SCHOLARSHIPS AND LOANS	
Scholastic Honors	33
Honor Societies	33
Scholarships	33
Miscellaneous Awards	36
Loan Funds	36
DEGREES, CREDENTIALS AND CURRICULA	
General Statement	37
Requirements for Bachelor of Arts Degree	38
Lower Division Curricula	40
COURSES OF INSTRUCTION	
Organization of the College	46
Explanatory Note	47
School of Education	50
School of Arts and Sciences	63
Division of Fine and Applied Arts	63
Art	64
Home Economics	68
Industrial Arts	71
Music	74
Speech	79
Division of Health and Physical Education	86
Physical Education for Men and Women	86
Health and Hygiene	92
Division of Language and Literature	96
English	96
Modern Languages	101
Division of Natural Sciences	103
Biological Sciences	103
Physical Sciences	112
Mathematics	114
Division of Social Sciences	116
History	121
Economics	123
Business Administration	124
Geography	127
Philosophy	127
Political Science	127
Psychology	128
Sociology	128
Group Major	129
DIRECTORY OF PERSONNEL	130
INDEX	139

NOTE TO THE PROSPECTIVE STUDENT

A WORD ABOUT THE COLLEGE

Humboldt State College offers the prospective student several advantages and attractions. It is a five-year college, whose courses are organized to meet a variety of educational needs. The basic studies in the liberal arts and sciences afford an opportunity for a cultural education. With some degree of specialization, these courses provide professional training in teaching, social service, business administration, and other fields. Also, they provide the background work which is required for many more highly specialized professions such as medicine, dentistry, or engineering.

The College also offers practical training programs in secretarial work, wildlife management, radio production, and other vocational fields.

Besides these educational facilities, the College affords a congenial dormitory life, an activity program (music, athletics, dramatics), in which all are encouraged to participate, and a natural environment that is unexcelled for scenery and opportunity for outdoor life. And lastly, though not least, the friendliness of the students, and the cordial relationship existing between faculty and students are factors that promote the happy adjustment of the new student.

In cooperation with federal and state agencies, Humboldt State College offers to veterans of World War II an opportunity to pursue an educational program under highly favorable circumstances. Those eligible to receive government aid should consult representatives of the Veterans Bureau and the college authorities regarding enrollment.

A WORD ABOUT THIS CATALOG

This catalog is your introduction to the purposes and work of Humboldt State College. In it we have sought to put all the information necessary for an understanding of the offerings of the College, its organization, and the way in which it functions. Careful study of it will enable you to follow the curricular requirements and regulations with a minimum of personal assistance.

Acquaintance with some matters may well be postponed until after you have become well established in the College, but you should familiarize yourself with certain parts of this catalog as soon as you have decided to enter the College, namely:

(1) *How you enter the College.* The requirements and procedure for matriculation in the College are explained in the section entitled "Admission to the College." The procedure for enrolling in classes is specified under "Academic Regulations."

(2) *College rules and regulations.* The rules and regulations applying to all students are found in the section "Academic Regulations." All students are held responsible for a knowledge of them. Those requirements referring to particular curricula are found under "Degrees, Credentials, and Curricula."

(3) *Your course of study.* You will find the various curricula outlined under "Degrees, Credentials, and Curricula." Detailed information is given under the various divisions in the section "Courses of Instruction." A system of cross references to pages in both sections should enable you to find your information readily. The explanatory note at the beginning of the section "Courses of Instruction" is called to your attention.

(4) *Your expenses.* Expenses and fees charged by the College and the student body are listed under "Fees and Expenses." They are payable at the time of registration (except in the case of veterans registering under a government program). Living arrangements are discussed under "Student Life." In the next section, you will also find information regarding scholarships and loans that are available; directions for seeking employment are given under "Fees and Expenses."

If you have questions, please feel free to communicate with the Registrar of the College, or if you can, visit us personally.

Meanwhile, we invite you to come to Humboldt and hope we can welcome you here when the new semester opens.

THE PRESIDENT AND FACULTY OF HUMBOLDT STATE COLLEGE

THE COLLEGE

LOCATION

Humboldt State College is located in the town of Arcata, which is situated on the north shore of Humboldt Bay in Northern California. Backed by high forested hills, the College occupies a conspicuous position on the top of a hill, about a mile from the center of town. It commands an unrestricted panorama of forested mountains, bay, dairy and farm lands, sand dunes, Pacific Ocean, and at night the lights of Arcata, Eureka, and Samoa.

Arcata, the first town to be established in northwestern California, is located on the famous Redwood Highway eight miles north of Eureka and 300 miles north of San Francisco. It is reached by the Northwestern Pacific Railroad, Pacific Greyhound Lines, and by Southwest and United Air Lines. It has a population of over 3,800. Lumbering, box manufacturing, and dairying form the basis of the business life of the community. Eureka nearby is a thriving city of about 20,000 people. It is the county seat of Humboldt County and is the site of a woolen mill and several lumber mills. About 50 miles south of Eureka is Cape Mendocino, the westernmost point of the mainland of California. Humboldt State College holds the distinction of being the college farthest west in the United States.

The climate of the Humboldt Bay region, though moist, is stimulating and equable, the extremes of heat and cold being absent. Summer and fall are particularly delightful seasons.

PHYSICAL EQUIPMENT

CAMPUS AND BUILDINGS

The physical plant of the College comprises a compact group of buildings and athletic facilities, appropriately landscaped. The main building, a rectangular two-story structure surrounding an inner court, houses the administrative offices, faculty offices, classrooms, library, social unit, and auditorium. Adjacent to the main building are the original normal school buildings, used today for a variety of purposes. In the rear are a modern gymnasium and stadium, with turf playing field and facilities for football, baseball, and track.

Back of the athletic field and gymnasium, the College owns a large tract of second-growth redwood forest, in which have been cut a number of trails and clearings for purposes of recreation and botanical study.

In front, across the street from the main building, are four tennis courts for the use of the students and faculty. A small greenhouse, a fish hatchery, and game-bird breeding pens have been provided for specialized class projects.

Not far from the main building is Nelson Hall, a modern dormitory which accomodates 65 students and houses the well-equipped dining commons.

LIBRARY

The library, situated off the south end of the inner court, contains some 20,000 volumes. Though not large, this collection is well distributed as to subject matter, including recreational reading, and is constantly being enlarged. Its periodical list contains over 150 titles, about half of which are scientific and professional and the rest of general nature. For many of the titles which the library does not possess it draws upon the collection of the California State Library, with which it has a borrowing arrangement. If desired, the library will also borrow, at a small expense charge, from the great collection of the library of the University of California at Berkeley. The library requirements of the College are thus met in adequate fashion.

COLLEGE ELEMENTARY SCHOOL

The College maintains an elementary school on the campus, a short distance from the main building. It is here, as well as in the schools of Eureka and Arcata, through the cooperation of their school authorities, that the student teaching by the teaching credential candidates is conducted.

The College Elementary School extends from the kindergarten through the eighth grade and is housed in a commodious and modern building of reinforced concrete. Fenced-in playfields are provided for the demonstration of a modern program of physical education.

An extensive building program has been approved and construction is expected to begin as soon as materials are available upon a new industrial arts building, a science, and a library building, which are the units first scheduled for construction. An auditorium, a women's gymnasium, swimming pool, an administration building and a vocational arts building are tentatively approved for future construction, and additional property adjacent to the campus is being purchased by the State to provide for the planned expansion of the College. Funds have also been apportioned for the construction of dormitory buildings to house approximately two hundred students. Temporarily, the Federal Government has allocated housing units and other facilities to better enable the College to meet the demands of the present emergency.

HISTORICAL NOTE

Humboldt State College is one of the six California state colleges, which have developed out of the old state normal schools. The original Humboldt State Normal School was established in 1913 by an act of the Legislature. Actual instruction began on April 6, 1914, the first class sessions being held in the Arcata Grammar School under an agreement between the Board of Education of Arcata and the normal school authorities.

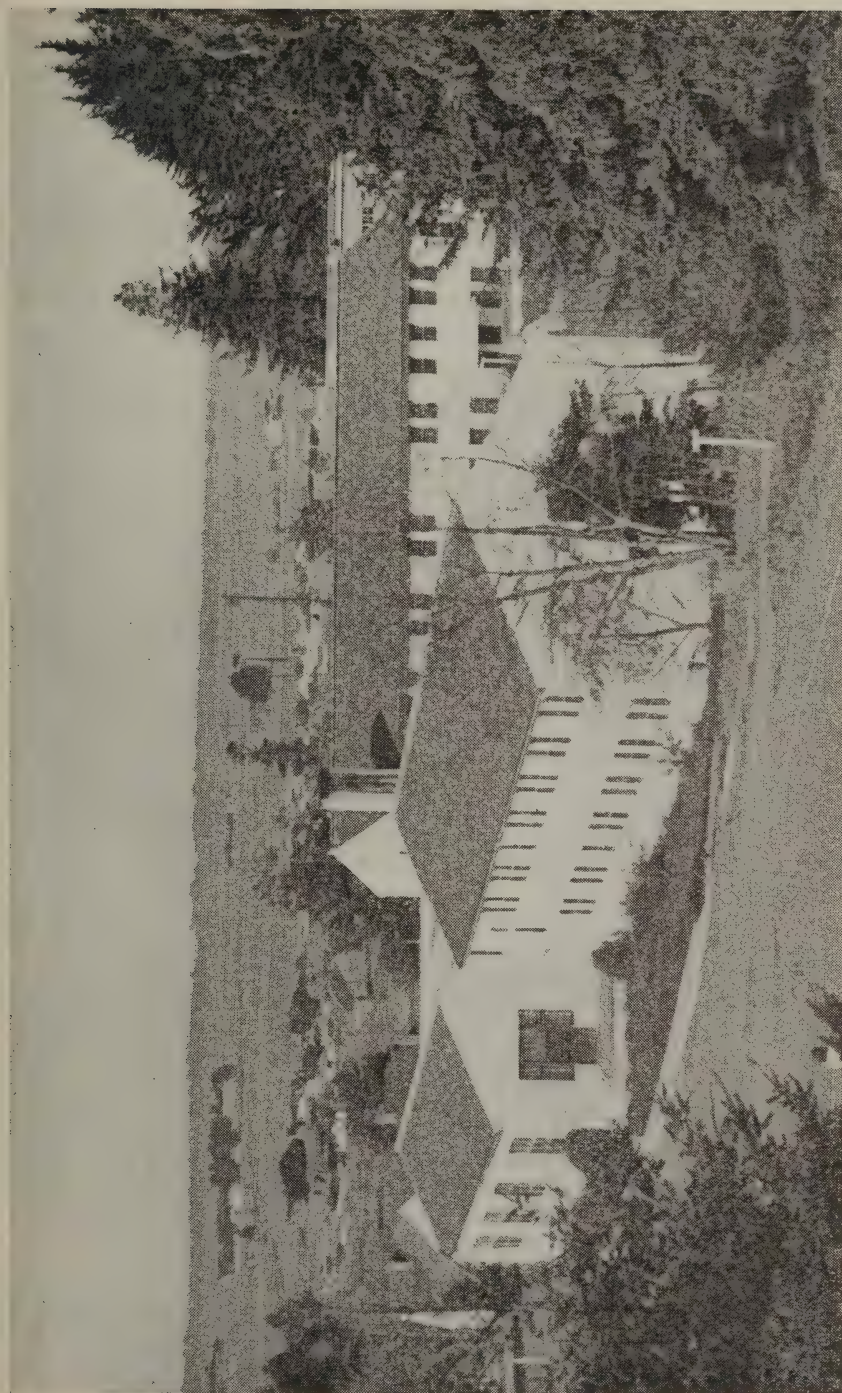
The fine site of the College was donated by William A. Preston and the Union Water Company, whose officers were Noah H. Falk, Len Yocom, Mrs. Arthur Way, and Mrs. Kate Harpst. By January, 1915, temporary wooden buildings were constructed and ready for occupancy. In 1917 the Legislature appropriated \$245,000 for the permanent main building, which has been in use since February, 1922. A \$70,000 gymnasium was added in 1930 and the four tennis courts and the College Elementary School in 1933. In 1941, Nelson Hall, a dormitory for men and

women, was erected at a cost of \$195,000. This building was named for Honorable Hans Nelson of Eureka, who introduced the original bill in the Legislature for the establishment of the College.

The professional curriculum in teacher training originally required two years to complete. Gradually it was extended and broadened to include many of the liberal arts and the sciences, so that today at least four years must be spent to complete any teacher credential curriculum offered by the Collège.

Control of the institution was first vested in a local board of trustees, appointed by the Governor. The members of this first governing board of trustees were: E. W. Haight, Fortuna; Rease M. Wiley, Arcata; Charlotte Gale, Arcata; Henry J. Bridges, Eureka; and Dr. W. E. Cook, Eureka. In 1921 control was transferred to the State Department of Education and the College placed in the hands of the Director of Education and the State Board of Education. The Legislature at the same time changed all of the normal schools to State Teachers Colleges, and authorized the State Board of Education to grant the Bachelor of Arts Degree in Education. In 1935 the Legislature changed the name to Humboldt State College and authorized the granting by the College of the Bachelor of Arts Degree in the Liberal Arts. Thus the College now functions as a teacher training institution and as a regional, liberal arts college.

In 1947, the College received authorization to grant the General Secondary Credential. This authorization entailed a year of graduate study, so that the institution thus became a five-year college.



NELSON HALL, RESIDENCE HALL FOR WOMEN

STUDENT LIFE

LIVING ACCOMMODATIONS

Living quarters for students in attendance at the College are available in the college dormitories, Nelson Hall and Redwood Hall, which are operated under the supervision of the Head Residents and the President. Nelson Hall is a beautiful, modern building accommodating over 100 women and including the spacious dining commons and lounge. Redwood Hall is an all-men's dormitory housing 68 men comfortably and pleasantly.

Three students are assigned to each room, with reasonable rental rates. Bedding and towels and their laundering are provided by the dormitory. Students residing at Nelson Hall must agree to take their meals at the dining commons, at reasonable rates, with allowance for regular absences over week-ends. The cost of meals at the commons averages from \$1.25 to \$1.50 per day.

Other students, faculty members, and their friends are privileged to obtain meals at the commons in Nelson Hall.

All lower division women students who do not commute daily to the College are expected to live in Nelson Hall, unless special arrangements are made by the parents with the Dean of Women. It is advisable, also, for upper division women to reside in the dormitory, if they are away from home.

By special arrangement with the Federal Housing Authority 30 housing units have been allocated to Humboldt State College. These dwellings comprise Humboldt Village, situated at a convenient distance from the central buildings, and are available at reasonable rental rates.

Application for admission to the dormitories and to Humboldt Village should be made through the office of the Dean of Students. New students at Humboldt State, who are not known personally by the faculty, must accompany their application with two letters recommending the applicant's character and integrity. These letters should be from teachers or friends who have a personal acquaintance with the applicant.

Because of existing conditions, it is difficult to find accommodations for board and room in the community. However, if a room or an apartment is desired, the student should consult the Dean of Students at an early date as it is necessary to make arrangements well in advance of the opening of the semester.

It is important that the College have correct local and home addresses of all students. A record of these addresses is kept both in the office of the Secretary to the President and in the office of the Registrar.

STUDENT ORGANIZATIONS

A number of student activities are carried on in the College in the form both of student organizations and of certain activities such as athletics, dramatics, and music, for which college credit is given. The administration is convinced of the value to all students of participation in a reasonable number of these activities.

STUDENT BODY GOVERNMENT

In keeping with the democratic tradition in American education the College administration encourages student body government as a means by which the students may acquire an appreciation of and practical experience in the art of self-government. It is expected that such government will develop leadership and a sense of responsibility among the students. However, the faculty retains authority and supervision over certain matters, such as student body finances and relations with individuals or groups outside the College where sound financial practice, legal responsibilities, and the best interests of the students make it advisable.

The organization of the students, known officially as the Associated Students, consists of four officers—President, Vice President, Secretary, Treasurer—a Board of Control, and an Executive Council. The student body officers are elected annually in the spring. The Board of Control composed of the Vice President of the Associated Students as ex-officio chairman, three women, and three men elected along with the student body officers, is charged with the responsibility of maintaining high standards of conduct around the College. The Executive Council consists of the four elected student body officers, the members of the Board of Control, and a faculty sponsor appointed by the President of the College. Its duties are to hold student body elections, set student body dues, approve and adjust the budget, authorize purchases and the payment of bills, inventory school property at the end of the school year, and oversee student body affairs in general.

Student body membership is prerequisite to participation in any extra-curricular activity sponsored by the Associated Students.

STUDENT COOPERATIVE STORE

For the convenience of the students, the student body maintains a cooperative store where college textbooks and supplies may be obtained at cost. It is equipped with a soda fountain and facilities for serving meals.

GRADUATE MANAGER

A Graduate Manager is employed by the Associated Students, as comptroller of student accounts, general manager of the "Co-op," and promoter of all student body activities.

CLUBS AND SOCIETIES

To recognize scholastic achievement, encourage particular interests, and afford recreation, the students have established a number of organizations, which are authorized by and coordinated through the Associated Students. Among these organizations are the following:

- Alpha Psi Omega (a National dramatics fraternity)
- Associated Women Students
- Chi Sigma Epsilon (local scholastic honor society) See page 33
- The College "Y"
- G.I. Wives Club
- Home Economics Club
- Humboldt State College Ski Club
- Men's Association
- Modern Dance Group

Mu Epsilon Psi (music club)
Newman Club
Physical Education Club
Residence Hall Groups
Rho Sigma (sophomore honor society) See page 33
Student Teachers' Club
Women's Athletic Association

In addition the freshmen, sophomore, junior, and senior classes are organized and select their faculty sponsors early in the fall semester.

PUBLICATIONS

A weekly college newspaper, the *Lumberjack*, is published by the Associated Students.

The student yearbook, *Sempervirens*, is usually published in the spring.

SOCIAL LIFE

The social atmosphere of Humboldt State College is highly congenial and informal, contributing both to the enjoyment of the students and to the development of social poise and the appreciation of the arts of gracious living. Dormitory life and the friendly relationships between faculty and students are factors that help to promote a well-rounded social program.

A considerable number of student dances are given throughout the college year under student body auspices. The Associated Women Students hold a Freshman Round-Up early in the fall semester. In the spring they give a combined Mother's Day tea and fashion show, as well as a tea honoring the new freshmen students. They also assist as hostesses at social functions in honor of visiting schools or given by the faculty. The Women's Athletic Association sponsors banquets and sports affairs throughout the year. This group also sponsors a large annual party for all new women students. At the end of the spring semester just before Commencement the graduating seniors conclude their undergraduate days with a series of outings and a senior banquet and ball. Numerous impromptu social functions are held at the dormitories by the resident students. In addition to these affairs, a formal dance is sponsored each semester by the students of Nelson Hall and the Head Residents entertain the students at an annual Christmas party. "Faculty Informals" are held each week at Nelson Hall, when a faculty member is invited to visit with a group of residents to promote closer relationships between faculty and students.

The faculty sponsor several social functions for the students. Early in the fall, President and Mrs. Gist, and the deans of men and women entertain the freshmen and new students at a tea held in the Social Unit of the College. In the spring President and Mrs. Gist entertain the seniors at a tea in their home. During the last month of school, the Faculty Women's Club entertain the graduating women. Likewise, after the Baccalaureate services, which are held in the College Court, the faculty give a reception in honor of the graduating class.

ATHLETICS AND RECREATION**INTRAMURAL SPORTS**

To promote recreation and physical development, the Division of Health and Physical Education conducts a program of intramural sports.

For the women, a full program of intramural sports is conducted under the sponsorship of the Women's Athletic Association. The school year is divided into three seasons, fall, winter, and spring, and a field week of final tournaments is held during the last week of each season. The field week dinner for all new members concludes the events of the week. Activities offered during the year include hockey, basketball, softball, volleyball, tennis, archery, badminton, and an outing club. The Women's Athletic Association in conjunction with the department of Physical Education for Women sponsors a play day at the College for the girls in all the high schools in Mendocino, Humboldt, and Del Norte Counties.

For the men, intramural activities are supervised by the Intramural Board, competition being organized in basketball, volleyball, tennis, and golf. Leagues are organized throughout the county to provide additional opportunities for stimulating competition. Boxing teams from the College participate in all tournaments held in this area.

Co-educational recreational activities are encouraged and sponsored by several agencies including the golf, riding, outing and modern dance groups.

MEN'S ATHLETICS

The student body conducts a full program of men's intercollegiate athletics that includes football, basketball, baseball, track, and tennis, on both the varsity and junior varsity level. Competition is scheduled with colleges and amateur athletic organizations in California and Oregon. A large number of the men students participate in the intercollegiate competition of the College, for the coaching staff is especially interested in developing capable performers out of individuals with little or no athletic experience.

The College is a member of the Far Western Conference, and the regulations of that conference govern athletic eligibility. The member schools of this conference are: Chico State College, University of California, Humboldt State College, Southern Oregon College of Education, and San Francisco State College.

The Division of Health and Physical Education requires all men and women participating in intercollegiate athletics and intramural sports to pass a health examination each season.

OUTDOOR RECREATION

The student seeking recreation on his own will find in the surrounding country a variety of scenic and natural attractions. Several miles of sand dunes extend along the ocean from the north jetty of the entrance to Humboldt Bay to Little River. North of Little River the coast becomes rugged, with numerous caves, points, and reefs. About 20 miles north of Arcata on the Redwood Highway is Patrick's Point with fine picnic facilities, and a couple of miles beyond that is Big Lagoon, a virtual salt-water lake which, protected from ocean breakers, affords safe swimming and boating. Within an hour's drive or less one can reach the famous

redwood groves south of Scotia and north of Patrick's Point, as well as along the Van Duzen River. At North Dyerville Flat stands the tallest tree in the United States, 364 feet in height. Consultation of any good road map of Northern California will suggest several interesting trips into a rugged and little settled back-country interior from the coast.

Still other attractions offer themselves. Humboldt County possesses a relative abundance of wild game and fish. In the winter there is skiing on Grouse Mountain, where the College Ski Club has built a cabin. In the summer there is swimming in the pools of Mad and Eel Rivers. The golf course near Arcata makes special rates to students. The lighthouse at Cape Mendocino, the lighthouse and Spanish cross at Trinidad Head, the Blowhole three miles south of Trinidad, the Coast Guard station on the peninsula, the woolen mill in Eureka, the box factory in Arcata, and the large lumber mills in Samoa, Eureka, and Scotia are places well worth visiting.

MUSIC AND DRAMA

There is abundant opportunity for students to participate in musical and dramatic activities at Humboldt. A wide and varied program is offered in both fields.

Musical organizations include a Little Symphony Orchestra, a College Chorus—open to all men and women regardless of ability—and an A Cappella Choir. These groups give concerts in both the fall and spring terms. In addition the A Cappella Choir annually tours Northern California and the bay region, singing at many schools, colleges, and churches. The Choir has gained state-wide recognition for its outstanding performances.

An annual Music festival sponsored by the College brings to the campus musical organizations from all high schools in this region in a festival culminating in a concert by the massed bands of the participating schools.

The Drama Department of the College is noted for its productions. Each year it presents four or five major plays, a group of one-act plays, and a student variety show, in which a large proportion of the student body participates. Acting parts in these productions are open to all students who wish to try out. Also, through the Dramatic Workshop experience is offered in the other arts and crafts of the theater: scene design, stage-craft, lighting, make-up, etc.

The College sponsors an annual drama festival for the high school students of three counties, Mendocino, Del Norte, and Humboldt. Each high school participating presents a one-act play in a noncompetitive program which brings to the campus a large number of high school students interested in this field.

Humboldt State exchanges plays with two other colleges. Annual drama festivals are held with both San Francisco State College and Chico State College. Thus, each year the Humboldt Players have the opportunity of traveling to one of these schools and of entertaining the other on the Humboldt campus. The festivals, which are noncompetitive in nature, have become well known throughout Northern California.

RADIO

Many speech majors are particularly interested in the field of radio. Through arrangement with stations KIEM and KHUM in Eureka, these

students are given practical experience in broadcasting. Several programs are broadcast by direct wire from the campus each week over these stations. The schedule includes programs by both faculty and student groups. The College is a member of the Intercollegiate Broadcasting System of America.

Students receive regular course credit for participation in either music, drama or radio.

COUNSELING AND GUIDANCE

The College maintains a program of counseling and guidance designed to aid the entering freshman in making a satisfactory adjustment and to afford an adequate follow-up program throughout his stay at Humboldt State College. Since many factors affect the academic progress of a student and his ultimate success in life, the guidance program is many-sided and every faculty member participates in some phase of the program. The activities of the various agencies are coordinated by the Personnel Committee, which is composed of the President of the College, the Dean of Students, the Registrar, the Deans of Men and Women, and the Director of Teacher Training.

At the time of registration individual attention is given by the faculty program advisers, who are assigned on the basis of vocational objective or major field. A student is free to consult his adviser at all times concerning academic or personal problems. The academic success of his students is a matter of paramount concern to every instructor, and the policies of the College are geared to the attainment of high scholastic standards.

The College provides facilities for administering many types of standardized tests under the direction of the Testing Bureau. All students take the Ohio Psychological Examination (i.e., the college aptitude test), the Bell Personal Adjustment Inventory, the Iowa Silent Reading Test, and the Kuder Vocational Preference test. Other tests that are available include the general education and the special subject tests prepared by the U. S. Armed Forces Institute, the Strong Vocational Interest test, and many others.

Early in the semester, the Deans of Men and Women interview individually each freshman student, and several freshman assemblies are held to promote adjustment to college life.

An excellent opportunity for group guidance and social living is provided through the College dormitories. The Head Residents administer the internal affairs of the dormitories, employing student government insofar as it seems feasible to do so.

HEALTH SERVICE

In order to safeguard the health of its students, the College engages a physician and a health director, and maintains a health service program. The College Physician examines and counsels students on health problems. At least three medical examinations are given each student as follows:

- (1) At entrance (including a dental examination) ;
- (2) During the junior year ;
- (3) Before graduation.

Emergency treatment is given in case of accident or illness. Hospital service with special rates in the local hospital is available to students who make arrangements for such services through the Health Department.

VETERANS' SERVICE

For veterans, special counseling and guidance services are available. Harry E. Griffith, Dean of Men, is himself a veteran with overseas service. Several other members of the faculty also served in the armed forces and all are interested in the returned veterans and their problems.

Michael Chetkovich, a former student of this College and a graduate of the University of California, is employed by the Educational Services Division of the Veterans Administration to work with the veterans of Humboldt County. He maintains an office on the campus and devotes three days a week to the veterans of Humboldt State College.

Specialized guidance and counseling is also provided under the joint auspices of Humboldt State College and the Advisement and Guidance Section of the Veterans Administration. Vocational counseling is available here to any veteran who may wish assistance in determining his vocational goal.

Various community organizations and agencies are also prepared to render service to former members of the armed forces who are now enrolled in the College.

Wives of service men enrolled in the College are organized into a "G. I. Wives" Club, which holds regular monthly meetings. The group seeks to provide social activities for its members and especially to welcome strangers into the group and introduce them to the College and campus activities in which they are urged to share.

COMMUNITY RELATIONS

PLACEMENT SERVICE

The College maintains a Placement Bureau both for the service of graduates of the College and of employers. It seeks to help the College graduates, both current and past, find the positions best suited to their abilities and training, and to assist employers by recommending to them the candidates best suited to the positions to be filled.

The placement of graduates in the business courses is handled by the department. The bureau is alert to discover not only beginning positions for students, but to secure promotion for former students. For a number of years, the institution has been successful in placing virtually all of its recommended graduates, and at present, the demand exceeds the supply.

Students seeking position as teachers will find it to their advantage to work through the Placement Bureau. This bureau assembles and furnishes to school officials information about the character, sense of responsibility, scholastic achievement, participation in student activities, and success in student teaching of the graduates of the College who hold teaching credentials.

Since the organization of the Placement Bureau 20 years ago, more than 95 percent of all graduates who desired teaching positions have been placed. In recent years, this figure has frequently reached 100 percent. Humboldt graduates are teaching successfully in almost every county of the State.

COMMUNITY SERVICE

Inasmuch as the College is a state institution, its facilities, when not in use for college purposes, are available for use by the citizens of the State. It particularly welcomes conventions, conferences, and assemblies of educational or cultural nature. The College auditorium seats 350. Arrangements for the serving of meals in the dining commons should be made with the manager of Nelson Hall.

EXTENSION COURSES

Extension courses will be conducted at the College in the evenings or on Saturdays whenever a sufficient number of teachers or members of the general public make such a request. Similar courses will be offered away from the campus if at least 20 people enroll in a course and make provision for the additional expense of such instruction.

THE ALUMNI ASSOCIATION

Active in the support of College affairs is the Humboldt State Alumni Association. This organization seeks to perpetuate college friendships, to promote the interests of the College, to acquaint prospective students with the opportunities open to them at Humboldt State, and to support worth while projects that contribute to the progress of the College.

Graduates and former students who have completed at least 30 units of work are eligible to membership in the association which holds annual or semiannual meetings, and publishes an alumni quarterly.

Former students (prior to 1947) who are eligible for membership may obtain a life membership in the association by the payment of a fee of \$5. Under a plan approved by the Associated Students and incorporated into the constitution of the Alumni Association, students pay a fee of 50 cents per semester, and upon graduation, are automatically life members of the association. Those who complete 30 units of work but less than eight semesters may obtain life membership in the Association by paying the difference between their contributions and the total fee.

Officers of the association at present are :

G. E. Goodwin	President
Robert Madsen	Vice President
Maxine M. Womack	Secretary
Oden Hansen	Treasurer
Board of Directors	Carl M. Owen, Gordon Hadley, Glen Waldner

ADMISSION TO THE COLLEGE

REQUIREMENTS FOR ADMISSION

High school graduates and other applicants possessing equivalent preparation may be admitted to a state college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, by evidence of good moral character and personal qualifications, and by a satisfactory score on a standard college aptitude tests. Regular matriculation will be granted only after the satisfactory completion of a full semester's program of study with records indicating probable success in the chosen curriculum.

Veterans honorably discharged following completion of three full months of service in the armed forces during the emergency created by World War II, and applicants over 21 years of age, who are not high school graduates and who do not possess equivalent preparation but whose score on a standard college aptitude test indicates ability to do satisfactory college work in the chosen curriculum, may be granted provisional admission as special students. Such persons may be granted full matriculation on the following conditions: (1) the removal of all deficiencies; (2) the completion of one full semester's satisfactory college work in the chosen curriculum.

The state law provides that veterans who lack but one semester of high school work for graduation may secure their high school diplomas upon application to the high school. Those who lack more than one year of high school work are advised to: (1) Apply military service credit toward the removal of high school deficiencies and receive diplomas if possible; or (2) take the high school Test of General Educational Development prepared by the U. S. Armed Forces Institute. A satisfactory score on this test is usually accepted as a basis for granting the high school diploma, but additional statutory requirements may sometimes be required. Veterans should consult their high school principals concerning these matters.

Veterans who wish to be admitted to the College under the so-called "G.I. Bill," Public Law 346, should submit an application for a Letter of Eligibility to the Veterans Administration together with a photostatic or certified copy of their discharges. When they receive the Letter of Eligibility they must present it to the College when they report for registration.

Veterans with 10 percent disability or more should consult the Veterans Administration regarding the possibility of enrolling under the Veterans Rehabilitation Act, Public Law 16.

The State of California also offers educational assistance to veterans under the Veterans' Educational Institute, with headquarters in Sacramento. The state aid program may be used either before or after the federal educational assistance has been used, but it can not be used concurrently.

Upon admission to college, all students are classified on the basis of the curricula chosen and their qualifications for undertaking such curricula. Approval for full matriculation shall be granted by the College Faculty in accordance with State Board of Education regulations.

ADMISSION WITH ADVANCED STANDING

CREDIT FOR MILITARY SERVICE. Veterans who have served for a minimum of three months in the armed forces will receive credit in compliance with the recommendations of the American Council Guide to the Evaluation of Educational Experiences in the armed services. Wherever possible, this credit will be applied in satisfaction of specific requirements, but if this is not possible, it will be treated as unclassified, elective credit.

Veterans whose training included formal college work, (C. D. T., or A. S. T. P.), or who completed courses of college level under the U. S. Armed Forces Institute or other formally organized college classes should submit complete transcripts of record covering all such courses if they wish to receive credit for this work.

FROM OTHER COLLEGES. Applicants for admission who have completed work in any recognized institution of collegiate grade may be admitted and given advanced standing as determined by the proper authorities. These applicants must present transcripts of record showing satisfactory scholarship and honorable dismissal from the institution last attended. Credit toward the fulfillment of graduation requirements will be allowed only insofar as the courses satisfactorily completed meet the requirements of the basic course pattern of the curriculum to be followed in this College.

No credit is allowed for teaching or other practical experience. Specific requirements in certain departments may be waived, however, on the basis of previous experience. An exemption allowed for experience will not carry units of advanced standing nor diminish the number of units required for graduation.

Credits earned in nonaccredited colleges may be accepted as a basis for advanced standing only to the extent that the applicant can demonstrate to the satisfaction of the State College authorities that a satisfactory degree of proficiency has been attained in the courses in question.

FROM JUNIOR COLLEGES. Credits earned in accredited junior colleges will be evaluated by the State College in accordance with the following provisions:

1. Not more than 64 semester hours of work may be allowed for credit.

2. No credit may be allowed for professional courses in education.

SCHOLARSHIP AVERAGE. In the case of students transferring to this college from other institutions, the scholarship average at the previous institution will be included with the average made at this college.

EXTENSION. Extension work taken in other institutions is allowed only up to 10 percent of the total curriculum requirement.

ADMISSION TO THE GRADUATE DIVISION

Holders of bachelors' degrees from accredited institutions will be admitted to the graduate division to work toward the General Secondary Credential upon presentation of transcripts showing satisfactory scholarship records and adequate preparation in the major field. Students whose undergraduate records do not qualify them for admission to the graduate

level may be admitted to such upper division courses as may serve to remove deficiencies.

Requirements for the secondary majors and minors are outlined in the sections of this catalog devoted to the respective divisions. Requirements in Education are outlined on pages 56 and 57.

Credits earned in the graduate division of this institution are accepted wherever applicable in transfer to the University of California toward the masters' degree.

TRANSFER TO OTHER INSTITUTIONS

Humboldt State College is accredited by the Northwest Association of Secondary and Higher Schools, by the University of California, and by the State Department of Education.

Holders of the A.B. Degree from Humboldt State College are accepted for unconditional admission to the graduate school of the University of California at Berkeley upon presentation of transcripts of record. The amount of work to be taken for an advanced degree is determined when the student is interviewed at the University. This same procedure is applied to graduates of all universities and colleges. Accreditation by the State University implies similar acceptance by other institutions. Humboldt students transfer freely to other colleges, universities and professional schools.

All students intending to transfer to another institution should consult the requirements of the institution to which they intend to transfer and arrange their programs at Humboldt accordingly.

During the present emergency, many professional schools have introduced varied screening devices, so that admission is on a highly selective basis. Students who expect to transfer to these professional schools should acquaint themselves with prevailing standards in the particular fields to be pursued.

SUBJECT A

Students who enroll as freshmen at Humboldt State College are required to take the Subject A examination and the Iowa Silent Reading test during the registration period. Those who pass the Subject A test with a satisfactory score enroll in English 1A, First Year Reading and Composition, during the first semester in college. Those who fail the examination are required to take Subject A, English Composition. Although credit is given for this Subject A course, these units may not apply toward the six units in English required for an A.B. Degree. The Subject A examination is a thorough test in English usage and composition.

All entering students except those who have passed the University of California Subject A examination or have passed a course in college composition in some other college are required to take this examination.

COLLEGE APTITUDE TEST

All new students are required to take the college aptitude test, which is given each semester.

REGISTRATION

Students should report for registration in compliance with the schedule announced in the calendar. A faculty adviser is assigned to each student according to the curriculum he selects. After a program has been approved by the adviser, the student completes his registration by the payment of fees and the filing of his registration and course cards.

The student's official study list is filed in the office of the Registrar. Since this list is the basis for official reports and records, the student must assume responsibility for keeping this list accurate at all times.

Prior to formal registration, conferences may be held with advisers or with the Registrar about suitable programs or course requirements.

New students, both freshmen and transfers, should make preliminary arrangements for registration and evaluation of transcripts before the opening of the semester. Transcripts of former work should be filed with the Registrar two weeks in advance.

Students who are unable to report for registration during the designated period must make special arrangements with the administration and the faculty concerned. A special fee of \$1 is collected for late registration.

The procedure for enrolling in classes is described on page 28.

SUMMER SESSION

Each year the College holds a summer session designed to meet the needs of (1) high school graduates prepared to enter college, (2) students and teachers working toward the A.B. Degree or a teaching or administrative credential, (3) teachers who desire to take "refresher" courses or to acquaint themselves with modern educational philosophy and procedures, and (4) persons seeking cultural advantages or combined study and recreation in one of the most scenic regions of California.

Admission to the summer session does not necessarily guarantee admission to the regular session. For students with no previous college work, admission requirements for summer session are the same as for regular session. (See pages 23-24.)

A feature of the recent summer sessions has been a workshop in elementary education, which has proved to be of special interest to in-service teachers.

The Registrar will send the Summer Session Bulletin upon request.

ACADEMIC REGULATIONS

UNIT OF CREDIT

A semester unit represents quantitatively 54 clock hours of work. It is usually administered as one recitation hour per week for 18 weeks, with two hours of preparation for each recitation hour. It may be administered as three recitation hours per week for 18 weeks without outside preparation.

CLASSIFICATION OF STUDENTS

Students are classified in two ways in terms of number of units completed.

Students who have completed less than 60 units are classed as *lower division students*. Ordinarily they are allowed to enroll only in lower division courses (see page 47). Students who have completed 60 or more units are classed as *upper division students*. They may enroll in both lower and upper division courses.

A student's class is determined by the number of units completed, as follows:

Freshmen	Less than 30 units
Sophomores	30 to 59½ units
Juniors	60 to 89½ units
Seniors	90 or more units

During a given semester students registered for more than five units are classified as *regular* students. Students registered for five units or less are known as *limited* students.

MARKING SYSTEM

GRADES

A five-grade marking system is used. The grades employed are defined as follows:

A	Excellent
B	Above Average
C	Average
D	Barely Passing
F	Failure

Plus (+) as given in certain courses means passed with a grade of "C" or better. Inc. means "incomplete," W "withdrawn."

Incomplete will be given to students who have been doing passing work and who, through no fault of their own, are unable (a) to take a final examination or (b) to complete certain class or laboratory work by the end of the semester. The grade is not given to students who are failing or who are dilatory. *The uncompleted work must be made up within the next year of residence, or the Incomplete automatically becomes a Failure.*

HONOR POINTS

Each of the above grades carries honor points as follows :

A-----	3 per unit
B-----	2 per unit
C-----	1 per unit
D-----	0 per unit
F-----	Minus 1 per unit

No honor points are given for an Incomplete until the final grade is given. Neither units nor honor points are given for a course from which a student withdraws. Hence, marks of Incomplete or "W" have no effect upon the Scholarship Index.

SCHOLARSHIP INDEX

The Scholarship Index is a device for rating a student's scholarship average. It is derived by dividing the total number of honor points earned by the total number of registered units. In computing the index, units are not included for courses that carry no honor points.

If a student repeats a course in which he has received grades of "D" or "F," he will receive the grade and honor points earned in the repeated course except that unit credit will be allowed only once for a course. When a student repeats a course in which a grade of "F" has been received, the negative honor points originally deducted are restored.

Unless otherwise specified, the term "Scholarship Index" refers to the cumulative rather than the semester index.

NORMAL PROGRAM

Fifteen or sixteen units of work in addition to a half-unit in physical education constitute an average program for a semester. According to the definition of semester unit given above, this means 48 hours of actual work each week.

Students who have demonstrated their ability, measured in terms of the Scholarship Index, may be permitted to carry additional work according to the following scale:

<i>Index of scholarship</i>	<i>Maximum load for following semester</i>
1.25-1.74 -----	17½ units
1.75 and above-----	18½ units

First semester freshmen, however, are limited to a maximum load of 17 units.

The approval of the Health Department is also required for students who register for more than the normal program.

In order to secure credit for their work students must have their programs approved by the faculty adviser.

CLASS ENROLLMENT AND ATTENDANCE

For each student who registers for a given class a course card is issued to the instructor. No student may be admitted to class unless the instructor has received his course card.

The College believes that regular and punctual class attendance is important to a high standard of work. Each instructor makes his own

regulations regarding attendance requirements. Students finding it necessary to be absent from college should obtain the approval of the President's secretary. Freshmen who are absent because of illness should secure a health excuse from the Health Office and present it to each of their instructors.

Any member of the faculty may exclude from his course any student who has neglected the work of the course, or is discourteous, or persists in practices annoying to the instructor or the class.

CHANGES OF PROGRAM

Necessary program changes may be made during the first four weeks through the Registrar's office with the consent of the student's adviser. Thereafter no program changes may be made. Exceptional cases, however, may be referred to the Scholarship Committee.

To drop a course, the student's procedure is as follows: (1) obtain his course card from instructor, (2) have it signed by adviser, and (3) turn it in at the Registrar's office. To enter a new course, the student should (1) obtain a "Permit to Enter" card from the Registrar, (2) have it signed by his adviser, and (3) exchange it at the Registrar's office for a course card which is filed with the instructor.

WITHDRAWAL FROM COLLEGE

Upon petition, an honorable dismissal may be granted to any student in good standing, provided arrangements have been made with the Registrar.

During the first twelve weeks of any semester, students withdrawing from college with official sanction shall be given a mark of "W".

During the last six weeks of any semester, those who withdraw shall be given "W's" or "F's" depending upon the quality of their work. Students who, because of illness or other unavoidable causes, have to drop out of college during this period may petition for Incomplete grades. This privilege shall be granted only to those whose work is of passing grade at the time of withdrawal.

Students who neglect to comply with these regulations shall have their courses reported as Failures.

REPORTS TO STUDENTS

At the end of the semester, reports are given to the students, the regular marking system being used.

Mid-semester reports are made to students doing unsatisfactory work. These reports are followed by conferences with the President or other members of the administrative staff. Students having particular difficulties in certain subjects are periodically interviewed by the President.

CREDIT BY EXTENSION OR CORRESPONDENCE

Students regularly enrolled in the College may be admitted to extension classes upon the approval of the adviser and the President of the College. In such cases the combined program shall be subject to the established load limitations for regular students.

The maximum credit toward the minimum degree and credential requirements is set at 30 semester units of either extension or correspondence work, or any combination of both taken in a California State College or other reputable institution. Of these 30 semester units, not more than 15 may be accepted until the student has completed a semester or quarter of full-time work in a California State College, or a comparable institution, with a scholastic average of 1.5 or above for such residence work.

An exception to the above ruling is made in the case of returning service men who may receive credit for all extension and correspondence courses which they may have completed, provided the courses are of college caliber, and that the applicant meets the college entrance, residence, and pattern requirements for a degree. The College further reserves the right to administer examinations covering any or all such courses for which credit is asked.

Within the above limits, the College shall have the right to pass upon the acceptability of extension and correspondence work as applicable toward credential or departmental requirements.

Neither extension nor correspondence credits shall be counted toward the residence requirements.

PROBATION AND DISQUALIFICATION

A student will be placed on probation whenever his cumulative record shows a grade point deficiency of 10 or more. He will remain on probation until the deficiency is decreased to less than 10, or until he is disqualified.

A student on probation shall be disqualified if his grade point deficiency increases by five or more over any minimum which he has reached while on probation.

Any student whose semester index falls below a "D" average (i.e., if he has a minus index) shall be disqualified.

Any student whose cumulative index is below a 1.00 shall be placed on warning.

Students whose personal conduct is unsatisfactory may be disqualified by administrative action at any time.

A student who has been disqualified for unsatisfactory scholarship may apply through the Registrar for re-entrance upon probation after the lapse of one semester.

FEES AND EXPENSES

REGULAR FEES

Payable by all students taking more than 5 units at the time of registration. These are all required by the State except as noted otherwise.

Registration fee—per semester-----	\$6 50
Materials and service fee—per semester-----	4 50

STUDENT BODY FEES

(Not required by the State)

Fee—per semester-----	\$10 00
Student yearbook (once a year only)-----	2 50
Physical education fee—per semester-----	75
Hospitalization and health fee—per semester-----	75
Diploma fee at graduation—	
With leather portfolio-----	2 50
Without leather portfolio-----	1 00

OCCASIONAL FEES

Registration fee for students taking 5 semester units or less—per unit-----	\$2 50
Materials and service fee for students taking five units or less—per unit-----	50
Extension fee—per unit-----	6 00
Late registration fee—regular students only-----	1 00
State credential fee—paid directly to Registrar's office—each credential-----	3 00
Special final examinations—each examination-----	1 00
Change of program fee (Limited to regular, or regular to limited, or reduction in limited)-----	50

SUMMER SESSION

Tuition fee	
Regular session (6 weeks, 4-6 units)-----	\$30 00
Less than 4 units, per unit-----	6 00
Less than 4 weeks, per week-----	6 00
Summer session lecture and recreation fund (not required by State)	
4 weeks or more-----	50
Less than 4 weeks-----	25
Summer session health and physical education fee	
4 weeks or more-----	50
Less than 4 weeks-----	25

No late registration fee is charged in summer session.

AUDITORS

Persons enrolled in college classes as auditors only are subject to the above fees in the same manner as those enrolled for credit.

REFUNDS

Students who find it necessary to withdraw from college may, under conditions prescribed by law, obtain a refund of tuition fees. Application for refund must be made not later than three weeks from the date of the student's registration. In case of illness, a duly authorized representative of the student may file the application for him. When a refund is granted, a charge of \$1.50 per semester is made to cover costs

of registration. Students who wish to make application for a refund should consult the Controller for further information concerning the regulations which govern such procedure.

STUDENT BODY FEES. These fees are not refunded if a student has participated in any student body activity.

SUMMARY OF EXPENSES FOR REGULAR STUDENT

	Expenses at Registration (Twice a year)	Approximate Monthly Expenses		Total for School Year (9 months)	
		Minimum	Maximum	Minimum	Maximum
Registration fee -----	\$6 50	-----	-----	\$13 00	\$13 00
Materials and service fee----	4 50			9 00	9 00
Student organization expenses (Club dues, yearbook, hos- pitalization, physical educa- tion, and alumni fees, etc.)	20 00	-----	-----	40 00	40 00
Books, papers and supplies (approx.) -----	15 00-50 00			30 00	100 00
Sub-total -----				92 00	162 00
Board and room-----		\$45 00	\$60 00	405 00	545 00
Miscellaneous (Entertain- ment, laundry, cleaning, etc.) -----		10 00	20 00	90 00	180 00
Total -----				\$565 00	\$860 00

Bus fare: Eureka-Arcata, \$5 per month.

STUDENT EMPLOYMENT SERVICE

Opportunities for part-time employment are available for needy and deserving students. The College employs as much student help as possible, particularly in the Commons, and for other types of work on the campus. The College also has requests for assistance for light housework, care of children, janitorial and clerical work. Application for employment should be made to the Dean of Students before registration.

For information in regard to loans and scholarships which are available, see page 33.

HONORS, SCHOLARSHIPS AND LOANS

SCHOLASTIC HONORS

GRADUATION HONORS are awarded to graduating students at Commencement, subject to the approval of the faculty, on the basis of their scholastic index achieved in their undergraduate work as follows:

Index 2.00-2.34 — with honor

Index 2.35-2.74 — with high honor

Index 2.75-3.00 — with highest honor

SEMESTER HONORS are given to all regular students who during a semester complete 12 or more units of work carrying a letter grade and who achieve a scholastic index of 2.00 with no *F*'s or *Incompletes*. These honors are announced at the Chi Sigma Epsilon honor assembly early in the following semester.

HONOR SOCIETIES

CHI SIGMA EPSILON is the upper division honor society, which elects members during the first part of each semester. High scholastic attainment, qualities of leadership, and high ideals of character form the basis of selection.

RHO SIGMA is a sophomore honor society, sponsored by Chi Sigma Epsilon, whose active members select them each semester from the sophomore class on the same basis as election to Chi Sigma Epsilon.

SCHOLARSHIPS

A number of scholarships in varying amounts have been set up by individuals and organizations to provide recognition and assistance for worthy students. Some are entrance scholarships to be awarded to high school seniors, and others are to be awarded to students already enrolled in college. Further information concerning the scholarships or the method of application may be obtained from the office of the Registrar.

THE ANNETTE PARTON JOHNSON PRE-NURSING SCHOLARSHIP. This annual award of \$50 commemorates the courage of Annette Parton Johnson, local nurse, who was credited with saving the lives of the patients in the old Trinity Hospital when it was destroyed by fire. The award was established by community agencies in appreciation of her service. It is open either to a high school graduate who will enroll in the pre-nursing course at Humboldt State College or to a college student already enrolled in that curriculum. High school students who are interested should submit transcripts of record and letters of recommendation from either the high school principal or the girl's adviser.

THE ARCATA ROTARY CLUB HONOR ENTRANCE SCHOLARSHIP. This annual scholarship of \$50 is offered by the Arcata Rotary Club to an outstanding graduate of Arcata Union High School who enrolls as a beginning freshman at Humboldt State College. Applicants must pre-

sent transcript evidence of high scholarship in the work taken during their last three years in high school, with not less than 10 recommending units from high school as a minimum scholarship requirement. They must also be recommended by the principal as persons of good character who, as high school students, have participated in school activities in a commendable manner.

THE ASSOCIATED BUSINESS GIRLS' SCHOLARSHIP. The Arcata Chapter of the Associated Business Girls awards a girl graduate of the Arcata Union High School a scholarship sufficient for the payment of all fees for the first year of the commercial course.

THE BELLE W. GLASER MUSIC SCHOLARSHIP. Miss Belle Dickson, Assistant Professor of Education at Humboldt State College, has established this scholarship in honor of her aunt, Mrs. Belle W. Glaser, a prominent San Francisco musician. The purpose of the award is to provide a fund to encourage students who have demonstrated ability and interest in the field of music to continue their studies in this field. The award (\$50) is to be used either for tuition, fees, or for private music lessons. Any student with junior standing or higher, of satisfactory scholarship and character, is eligible to receive the award. Other things being equal, preference shall then be given on the basis of financial need.

THE CHI SIGMA EPSILON SCHOLARSHIP. This scholarship, which covers the general student fees for the fall semester of the freshman year, is donated by Chi Sigma Epsilon to a high school graduate of Humboldt or Del Norte County on the basis of scholarship, character, and participation in activities while in high school.

THE CRAIG SCHOLARSHIPS. Two scholarships have been established by Miss Ann V. Craig, former member of the College faculty, in honor of her father and mother. The Edith R. Craig Scholarship is presented to a freshman student chosen at the end of his or her freshman year at the College. The John F. Craig Scholarship is presented to a sophomore student chosen at the end of his or her sophomore year at the College. Selection of the recipients is made by a faculty-student committee of three from those students in the respective classes who have a scholarship index of 2.0 or better and who have participated actively and commendably in at least one extra-curricular activity. Other considerations being equal, preference is given to the students with the greatest financial need. Each scholarship consists of \$50 to cover the expenses of registration.

THE HENRY F. BRIZARD MEMORIAL SCHOLARSHIPS. Three honor scholarships have been established by Mrs. Henry F. Brizard, in memory of her husband, who was for many years an active friend of Humboldt State College. These scholarships were established to encourage deserving high school graduates to continue their studies, and students who have already demonstrated their ability at college to do advanced work, in the hope that such students, conformant to the ideals of Mr. Brizard, will render a valuable service to society.

The honor entrance scholarship (\$100) will be awarded to an Arcata Union High School graduate who presents evidence, by transcript, of

high scholarship (at least 10 recommending units) in work taken during his last three years in high school, and is recommended by his principal as a person of good character.

An honor upper-division scholarship (\$150) will be awarded to a worthy student who has completed two years of work (60 semester units) at Humboldt State College with a scholarship index of not less than 2.0 (*B* average) and has participated commendably in at least one extra-curricular activity.

A special honor scholarship (\$100) will be awarded to a worthy student who has completed at least 30 semester units of work at Humboldt State College with an index of 1.50 or better, who has distinguished himself in any one special field, as music, drama, art, English, sciences, etc., and who has participated commendably in at least one extra-curricular activity.

THE HUMBOLDT COUNTY FEDERATION OF WOMEN'S CLUBS SCHOLARSHIPS. Each year the Humboldt County Federation of Women's Clubs awards scholarships of \$50 each in voice and musical instruments. The music scholarships provide private instruction at the College. Recipients are determined by an annual contest at the College in the spring. They must be high school graduates of good standing and must major or minor at the College in the field in which the award is made.

If funds are available, one scholarship may be granted in another field. In the past, this additional scholarship has been awarded in the fields of pre-nursing and home economics.

THE MEN'S ASSOCIATION SCHOLARSHIP. The Men's Association of the College grants scholarships to two men graduates of the high schools of Humboldt and Del Norte Counties who have shown outstanding scholastic and athletic abilities. The scholarships consist of tuition paid for the fall semester of the freshman year. Selection is made by the scholarship committee of the Association from a list of candidates recommended by the high school principals.

THE MUSICIANS' UNION, LOCAL 333, has awarded for the school year 1947-1948 a scholarship of \$100 to an entering student with outstanding promise in music. The award may be applied toward general or specialized work in music, or may be applied toward general college fees.

THE SOUTH FORK P. T. A. SCHOLARSHIP. The Parent-Teacher Association of the South Fork Union High School awards a scholarship sufficient for fees and books to an outstanding and deserving graduate of that school who enrolls as a freshman student at Humboldt State College.

THE CALIFORNIA CONGRESS OF PARENTS AND TEACHERS SCHOLARSHIPS IN ELEMENTARY EDUCATION. To stimulate interest in elementary education, a number of \$300 scholarships have been provided by the California Congress of Parents and Teachers. These scholarships are available to senior students in high school or to college students enrolled in the general elementary teacher training program. Four Humboldt State College students were recipients of these scholarships in 1945-46.

VOCATIONAL REHABILITATION. The Bureau of Vocational Rehabilitation, State Department of Education, offers its service to students who

have an employment handicap resulting from physical disability of any kind. Included are vocational counseling, the payment of tuition and fees, and the provision of textbooks without charge.

MISCELLANEOUS AWARDS

ARCATA KIWANIS CLUB AWARD. The Arcata Kiwanis Club awards a \$10 prize each year to the Arcata High School graduate who has made the highest scholastic record at Humboldt during his freshman year.

AWARD FOR CREATIVE WRITING. President and Mrs. Gist have provided an annual prize of \$10 to stimulate creative writing. The arrangements for submitting manuscripts and the selection of the recipient are in the hands of the Department of English.

CHI SIGMA EPSILON FRESHMAN AWARD. This award is presented each spring to the student who has made the highest scholastic record in the freshman class at Humboldt State College.

FACULTY WOMEN'S GIFT. The Faculty Women's Club of the College presents a monetary gift to the graduating woman who has achieved the highest scholastic average during her four-year course at Humboldt State College.

PHI BETA KAPPA MEDAL. This medal is presented at Commencement by the Phi Beta Kappa members of the faculty to the student of sophomore standing or higher who makes the highest scholastic average during the year.

LOAN FUNDS

GENERAL STUDENT LOAN FUND. A small loan fund is at the disposal of the College to assist worthy students in meeting their necessary expenses. It has generally been the policy to make this fund available to students in the upper division courses. Students needing financial assistance are advised to discuss their problems confidentially with the Dean of Women, Dean of Men, or the President. Application for all loans should be made through the Financial Secretary.

SPECIAL STUDENT LOAN FUND. The faculty and certain organizations in Humboldt County have provided a special loan fund to assist worthy students in registration expenses. The applications are passed upon by a special committee of the faculty. The student should file his application prior to registration. Rarely are loans made to new students.

ROTARY CLUB LOAN FUNDS. The Rotary Clubs of Arcata and Eureka have established loan funds available for worthy students recommended by the President.

THE BUSINESS AND PROFESSIONAL WOMEN'S LOANS. The Business and Professional Women's Club of Eureka maintains a fund from which scholarships are awarded on a loan basis to women selected by the Club.

SEQUOIA MUSIC CLUB LOANS. The Sequoia Music Club awards on a loan basis two annual scholarships of \$50 in music. These scholarships provide for a year of private lessons at the College in either voice, piano, violin, or 'cello. Recipients are determined by a contest at the College in the spring. They must be high school graduates of good standing and must major or minor in music at the College for the duration of the award.

DEGREES, CREDENTIALS AND CURRICULA

GENERAL STATEMENT

The work offered by the College falls principally into two groups: (1) Teacher education curricula, administered by the School of Education; and (2) Liberal Arts Curricula, administered by the School of Arts and Sciences. A more detailed outline is as follows:

I. Teacher Education Curricula

A. Graduate work leading to

1. The General Secondary Credential with majors in:

- English-Speech (p. 96)
- Life Science and General Science (p. 103)
- Physical Education (p. 86)
- Social Science (p. 116)
- Speech-English (p. 79)

2. Administration and Supervision Credentials as follows:

- Elementary School Administration Credential (p. 61)
- Elementary School Supervision Credential (p. 61)
- Special Supervision Credential (p. 61)

B. Work leading to the A.B. Degree with the following credentials:

- General Elementary Credential (p. 54)
- General Junior High School Credential (p. 55)
- Kindergarten-Primary Credential (p. 54)
- Special Secondary Credentials in

Art (p. 65)

Music (p. 75)

Home Economics (p. 68)

Physical Education (p. 87)

Combinations of the foregoing credentials may be arranged.

II. Liberal Arts Curricula

A. The A.B. Degree with majors in:

- Art (p. 64)
- Biological Sciences (p. 103)
- Economics and Business Administration (p. 118)
- English (p. 97)
- Home Economics (p. 68)
- Pre-Medical Sciences (p. 105)
- Social Sciences (p. 116)
- Speech and Dramatics or Speech-Radio (p. 81)
- Wildlife Management (p. 110) and a
- Group Major (p. 129)

B. Lower Division curricula:

1. Terminal Vocational

- Drafting
- Secretarial Training
- Photography

2. Preparatory for transfer to other institutions (commonly designated as Pre-Professional):

- | | |
|---------------------|--------------------|
| Agriculture | Library Science |
| Architecture | Medicine |
| Dentistry | Mortuary Science |
| Engineering | Nursing |
| Forestry | Optometry |
| Law | Pharmacy |
| Letters and Science | Veterinary Science |

GENERAL REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

All students who are candidates for the A.B. Degree must comply with certain basic requirements established by the State Department of Education and the College. Additional requirements may be prescribed for a specific curriculum, but the requirements common to all degree curricula are as follows:

UNITS. A minimum of 120 units is necessary for graduation. Of these at least 40 units must be selected from Upper Division courses, and not more than 40 units may be taken in any one subject field.

RESIDENCE. At least 24 of the 120 unit total must be completed at this College in residence. Six of the last 30 units taken for a degree must be taken *in residence* at the College.

SUBJECTS. All candidates for the degree must take:

Elem. Algebra and Plane Geometry (if not taken in High School)

Social Sciences -----12 units

(Including the statutory requirement in U. S. History and Constitution. See statement below.)

Eight of the 12 units required must be taken in the lower division. At the discretion of the division, one year of social science taken in the senior year of high school for which recommended grades were received may be substituted for three units of social science.

Natural Sciences -----12 units

Eight of the 12 units required must be taken in the lower division. At the discretion of the division, chemistry or physics taken in the senior year of high school for which recommended grades were received may be substituted for three units of biological or physical science.

English (in the lower division) ----- 6 units

Psychology (in the lower division) ----- 3 units

Physical Education ----- 2 units

Electives from Philosophy, Art, Music, Speech Arts, Foreign Language, or Literature (English 46A-B or 74A-B) ----- 6 units

A physical education activity course is required each semester for all lower division students taking 12 units or more, unless excused by the chairman of the Division of Health and Physical Education.

A knowledge of the provisions and principles of the Constitution of the United States and of American History is required of all candidates for a bachelor's degree. The requirement may be satisfied in one of the following ways:

- (1) By passing an examination in American Government and American History.
- (2) By completing in the College one course in each of the following groups:
 - (a) Political Science 1A or 51
 - (b) History 8A-B, 70, or six units from History 171, 172, or 174.

- (3) By presentation of a certificate of completion of an appropriate course or courses at another accredited collegiate institution in California.

MAJORS AND MINORS. Each candidate must complete one major and one minor.

A *major* is a sequence of courses arranged to provide concentration in a field of special interest to the student. The student should select his major field with care, in accordance with his interests and objectives. Although it is possible to transfer from one major field to another, it is usually done at the expense of time and units.

A distinction is made between a teaching major in connection with the Junior High School Credential (and designated as a Junior High School major) and the major completed by students interested in securing a General Secondary Credential, or an A.B. Degree in Liberal Arts without a teaching credential.

The Junior High School major is composed of not less than 24 units at least 12 of which must be in the upper division, and is available in the following fields:

Art
Biological Sciences
English
Health and Hygiene
Home Economics

Industrial Education
Music
Physical Education
Social Sciences
Speech and Dramatics

Liberal Arts and Secondary majors require at least 24 units of upper division work, together with the necessary lower division prerequisites. Since the majors for the Secondary Credential are field majors (e.g., social science) instead of subject majors (e.g., history), the requirements often exceed the minimum. Greater concentration may be more desirable for students who aspire to work toward advanced degrees. Adjustments in the program for such students should be discussed with faculty advisors.

Students not interested in teaching may secure an A.B. Degree in one of the liberal arts curricula, completing a major in an appropriate field. These curricula provide a broad cultural and professional background for general education, business, government positions, law, medicine, church work, social service work, youth work, radio, or for graduate study or research.

For a detailed description of the requirements for the A.B. Degree with a secondary or a liberal arts major, see the respective divisions as indicated. Fields in which these majors are offered are listed on page 37.

A *minor* is a sequence of courses in a chosen field of not less than 12 units (except the teaching minor for the General Secondary Credential, where the minimum is 15 units), at least six of which must be in the upper division. In many cases, however, requirements within subject fields exceed this minimum.

In general, minors are designed to give breadth and background. In the curricula leading to teaching credentials they may serve the additional purpose of providing a second subject which the student may teach if necessary. Some combinations are better than others for transfer credit; some are better as teaching combinations. The future plans of the

candidate will determine in part what is desirable to choose for minor fields.

Minors are available in the following fields:

Art	Industrial Education
Biology	Journalism
Botany	Mathematics
Business	Music, Vocal or
Chemistry	Instrumental
Economics	Physical Education
Education	Political Science
English	Radio
French	Sociology
Health and Hygiene	Spanish
History	Speech and Dramatics
Home Economics	Zoology

Candidates for the General Secondary Credential may complete teaching minors in the following fields:

Art	Industrial Education
Biology	Mathematics
Business Education	Music
Economics	Physical Education
English	Radio-Speech
Health and Hygiene	Social Studies
History	Speech
Home Economics	

The requirements for each major and minor listed are to be found stated in detail at the beginning of the respective divisional sections under "Courses of Instruction."

SCHOLARSHIP. A scholarship average of "C" (index of 1.0) is required for graduation with the degree in all work taken, and in the majors and minors, as well.

LOWER DIVISION CURRICULA

The College offers two types of lower division curricula. The first is terminal in character and is offered in the following fields:

- Drafting (p. 71)
- Secretarial Training (p. 120)
- Photography (p. 67)

The second type comprises a number of lower division curricula the continuance of which in the upper division the College is not equipped to provide. Most of such curricula are pre-professional or technical in character, and are designed to meet the needs of those students who plan to obtain a Bachelor of Arts or a Bachelor of Science Degree or a certificate of completion at some other institution, but who wish to do the lower division work at Humboldt. *These students should acquaint themselves with the particular requirements of the institutions to which they intend to transfer and should ascertain which of the courses offered at the College will be accepted in preparation for their chosen fields of study.*

The following curricula are the more common fields of study in which the College offers lower division courses. These curricula are suggestive rather than fixed, since the specific course requirements of other institutions may vary. Nor is the list of lower division curricula complete; others may be arranged if the demand presents itself.

Since most of the students who take their lower division work at this College and then transfer elsewhere for the upper division work transfer to the University of California at Berkeley, the curricula described below are in most instances devised to meet the requirements of the University.

In some instances the University revises its requirements after the publication of this catalog, and the student is therefore cautioned that he should be sure to consult the latest bulletin from the University.

Students transferring to the University of California must meet (a) the entrance requirements of the University; and (b) the lower division requirements for the specific curricula involved.

To aid the student in planning his course, the requirements for the Degree of Associate of Arts, which the University grants upon completion of the lower division work, are given here:

REQUIREMENTS FOR THE DEGREE OF ASSOCIATE IN ARTS UNIVERSITY OF CALIFORNIA

(See University of California Circular of Information for details)

- (a) *Subject A:* (Completion of English A, 1A, or 1B at Humboldt satisfies this requirement.)
- (b) *Foreign Languages.* At least 16 units in not more than two languages, with not less than 4 units in any one language. The first two years of high school work in a foreign language will be counted in satisfaction of 4 units of this requirement and each year thereafter as 4 units.
- (c) *Mathematics.* Elementary Algebra and Plane Geometry.
- (d) *Natural Science.* Twelve units chosen from the following: Bacteriology, Biology 10A-10B, Botany 1A, 1B, Chemistry 1A-1B, 5, 8, Geology 1A, Physics 4A-4B-4C, 2A-2B, 3A-3B; Physiology, Zoology 1A-1B.
- (e) *Additional.* A year course of 5 or 6 units in each of four of the following groups (one of which may be postponed to the upper division):
 - (1) English 1A-1B; Speech 1-2, or 1-3.
 - (2) Foreign Language (additional to b).
 - (3) Mathematics (two courses from: Math. C, 2, 3A, 3B).
 - (4) Social Science, Economics 1A-1B, History 4A-4B, Psychology 1-2, Political Science 1A-1B).
 - (5) Philosophy 6A-6B.
 - (6) Fine Arts (Art 1, 3, Music 3A, 3B, 101, 102, English 46A, 46B, 74A, 74B, Speech 2, 102).

The student should also include in his lower division program courses in U. S. History and Government to fulfill legal requirements for graduation.

PRE-AGRICULTURE

AGRICULTURAL ECONOMICS

Subject A	Units
Botany, Bacteriology, Chemistry, Geology, Physics, Physiology, Zoology, or additional mathematics	18
Mathematics (including Trigonometry)	9
(High School work at the rate of 3 units for each year of high school mathematics may be offered toward this requirement)	
English or Public Speaking	6
Business Administration or Economics	15
Anthropology, Geography, History, Philosophy, Political Science, Psychology	12
Physical Education	2
U. S. History and Government	4

ANIMAL SCIENCE

Subject A	Units
Chemistry (Including Biochemistry)	16
Botany	4
Physics	6
Economics	6
Zoology	10
Bacteriology	5
Geology	3
English	3
*Mathematics (Including Trigonometry)	9
U. S. History and Government	4
Physical Education	2

PLANT SCIENCE

Subject A	Units
Chemistry	16
Botany	8
Physics	6
Bacteriology	5
Economics	3
English or Public Speaking	3
*Mathematics (Including Trigonometry)	9
Physical Education	2
U. S. History and Government	4
Zoology	3
Electives to total at least 60 units.	

* See explanation under Agricultural Economics above.

It is also possible to complete at least one year of the program in Entomology and Parasitology, and in Soil Science at Humboldt State College.

PRE-ARCHITECTURE

Students who expect to transfer to Stanford University to study architecture may profitably spend two years at Humboldt State. This two-year course should include the following: English 1A-1B, Mathematics 3A-3B, French 2A-2B, Civil Engineering 2, and as much art as practicable.

If the study of architecture is to be pursued at the University of California the student may find it advantageous to enroll here if he has entrance deficiencies to remove. While he is thus engaged he should also include in his program Physics 4A-4B, Mathematics E, and Industrial Education 7A-7B, if he has not had mechanical drawing in high school. It is necessary to meet the requirements for the Associate in Arts Degree to enter the School of Architecture at the University of California. (See page 41.)

PRE-DENTAL

Subject A	Units
English 1A-1B or Speech 1-2 or 1-3	6
Physical Education	2
Science	28-32
(a) Chemistry 1A-1B, 8, 9 or 5	16
(b) Physics 2A-2B and 3A-3B or 4A-4B	8
(c) Zoology 1A-1B	8
Trigonometry (if not taken in high school)	3
U. S. History and Government	4

Electives selected from the following groups----- 18

(a) Group I: 2 year-courses selected from

Economics 1A-1B
History 4A-4B
Political Science 1A-1B
Psychology 1-2

(b) Group II: 1 year-course from Group IIA or any 2 semester courses from Group IIB

IIA

A year sequence of any foreign language
English 46A-46B, 74A-74B
Music 101-102
Philosophy 6A-6B

IIB

Art 3
Music 3A, 3B
Any two semesters of a foreign language, provided a minimum of 8 units have been completed in the same language.

ENGINEERING

All students who expect to complete engineering curricula at the University of California are required to complete the following general requirements:

Subject A (English A, 1A or 1B at Humboldt meets this requirement)	Units
U. S. History and Constitution-----	4
Physical Education -----	2
Electives chosen from two of the following groups:-----	12

1. English, Public Speaking
2. Foreign Language
3. Business Administration, Economics, Political Science
4. Anthropology, History, Psychology
5. Biological Sciences
6. Fine Arts and Philosophy

Note: Students in Industrial, Agricultural, and Mechanical Engineering must select 3 units from group 1, and the 9 additional units from two of the other groups.

Attention is also called to the fact that admission to the College of Engineering will be based primarily on the results of an entrance examination, details of which may be learned by writing to the Dean of the College of Engineering, Berkeley, California.

Students may complete approximately two years of engineering work at Humboldt State College in the fields of civil, electrical, industrial, mechanical, and petroleum engineering, and at least one year in the fields of agricultural, metallurgical, mining engineering and economic geology.

PRE-FORESTRY

Subject A	Units
Botany 1A-1B -----	8
Chemistry 1A, 8 -----	8
Engineering 1A-1B -----	6
Economics 1A-1B, 40-----	9
Geology 1A -----	3
Mathematics 3A-3B -----	6
Physics 2A-2B, 3A-3B-----	8
Physical Education -----	2
U. S. History and Constitution-----	4
Zoology -----	3
Choice of Public Speaking, English, or Philosophy-----	6

PRE-LEGAL

Many colleges of law now require a bachelor's degree as a basis of admission. Students who expect to study law are advised to secure a degree if possible, majoring in social sciences, English, speech, or selecting a group major.

Those who expect to enroll in a college of law requiring only two years of college work usually plan the lower division work to comply with the requirements for the Associate in Arts Degree at the University of California (see page 41) or with the requirements of a specific College of Law.

PRE-LIBRARY SCIENCE

A good general education is the best basis for librarianship. Four years of college, followed by one or two years of professional study in an accredited library school, is the usual requirement. A student should plan his undergraduate course so as to acquire a good background in history, and in American, English and foreign literatures, and a working knowledge of at least two foreign languages, especially French and German. Study in the social sciences, psychology and education, and the physical sciences is important, and intensive study in some one field, such as chemistry, music, art, political science, education, or business is desirable.

PRE-MEDICAL

An A.B. Degree is desirable as a basis for admission to medical school, and wherever possible, students interested in medicine are advised to complete the requirements for the A. B. Degree with a major in pre-medical sciences. (See page 105.) This curriculum is designed to meet the requirements for an Associate in Arts Degree at the University of California, and the student who wishes to transfer after two years at Humboldt may plan his program to conform with those requirements (see page 41).

Pre-professional courses may also be arranged for dental assistants, medical technologists, laboratory technicians, occupational or physical therapists, and other related specialists.

PRE-MORTUARY SCIENCE

Beginning with 1948, two years of college work will again be required for admission to a college of mortuary science.

Subject A	Units
Art 1, 4	5
Business Administration 14A-14B, 18, 118	12
English 1A-1B	6
Health and Hygiene 1, 160	2
Physical Education	2
Science	29
Anatomy 66	3
Bacteriology 1	5
Chemistry 1A-1B	10
Zoology 1A-1B, 160	11
Electives	4

PRE-NURSING

PRE-OPTOMETRY

Subject A	Units
Speech 1, 3	6
Foreign Language*	16
Chemistry 1A-1B, 8	13
Bacteriology	5
Physics 2A-2B, 3A-3B	8
Physiology 1	5
Mathematics 3A	3
Physical Education	2
Psychology 1-2	6
Year Courses*	6-12
U. S. History and Constitution	4

If the student has not had Mechanical Drawing in high school he should include it in his program as an elective.

PRE-PHARMACY

Subject A	Units
English 1A-1B or Speech 1 and 3	6
Mathematics C and D (if not taken in high school), ¹ 1 or 3	3-9
Botany 1A	4
Zoology 1A-1B	8
Chemistry 1A-1B	10
Physical Education	2
U. S. History and Constitution	4

PRE-VETERINARY MEDICINE

Students who plan to study Veterinary Medicine should plan their programs to conform to the requirements of the school to which they expect to transfer. In general, one year of pre-professional work may be taken before transfer. This year's work should include:

	Units
Chemistry 1A-1B	10
English 1A ² -1B	6
Social Science	6
Zoology	8

* See Associate in Arts Degree requirements, page 41.

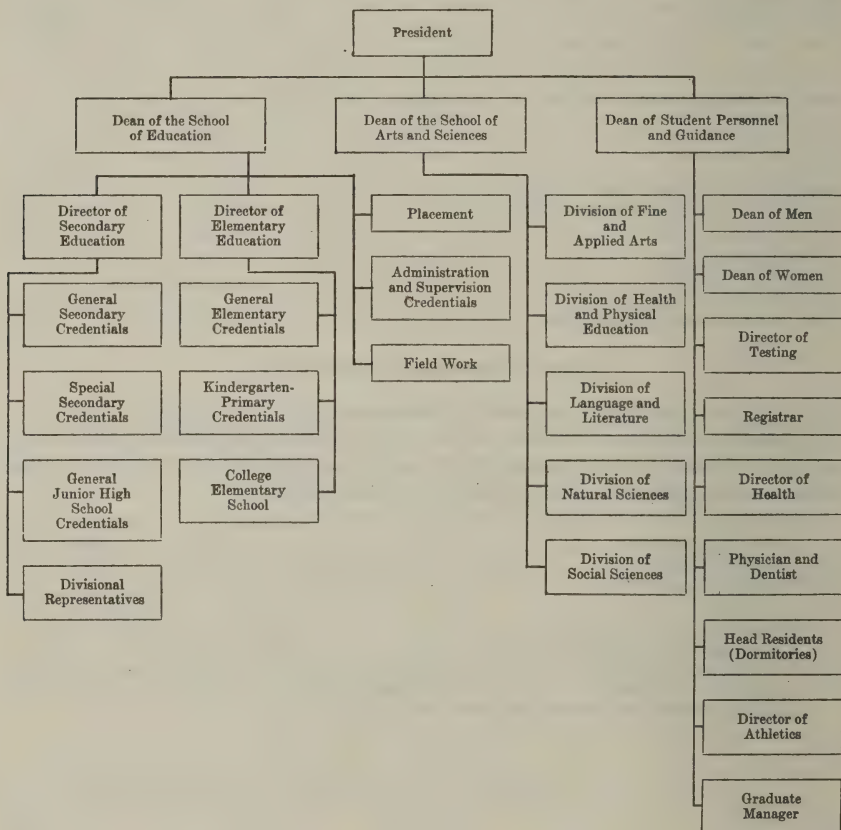
¹ Students who present matriculation credit in these subjects should take a three- or six-unit course in history, psychology, foreign language or advanced work in mathematics.

² Subject requirement may be fulfilled by examination; no unit credit.

COURSES OF INSTRUCTION

ORGANIZATION

The following chart shows the functional organization of Humboldt State College:



As indicated by this chart, the curricular offerings of the College are organized into two main categories under the leadership of two academic deans, the Dean of Education, and the Dean of Arts and Sciences. The Dean of Education exercises general supervision over the courses offered in Education, and the entire teacher-education program, including the administration of the College Elementary School.

The Dean of the School of Arts and Sciences supervises the work of five divisions in Arts and Sciences; namely, the Divisions of Fine and Applied Arts, Health and Physical Education, Language and Literature,

Natural Sciences, and Social Sciences. Under these divisions, the fields of study are grouped as follows:

1. The Division of Fine and Applied Arts
 - a. Art
 - b. Home Economics
 - c. Industrial Arts
 - d. Music
 - e. Speech and Drama
2. The Division of Health and Physical Education
 - a. Physical Education for men and women
 - b. Health and Hygiene
3. The Division of Language and Literature
 - a. English Language and Literature
 - b. Foreign Languages and Literature
4. The Division of Natural Sciences
 - a. Biological Sciences

Anthropology, Bacteriology, Biology, Botany, Paleontology, Physiology and Anatomy, and Wildlife Management
 - b. Physical Sciences

Chemistry, Geology, Physics
 - c. Mathematics
 - d. Engineering
5. The Division of Social Sciences
 - a. Business
 - b. Economics
 - c. Geography
 - d. History
 - e. Philosophy
 - f. Political Science
 - g. Psychology
 - h. Sociology

EXPLANATORY NOTE

Lower division courses carry numbers between 1 and 99, inclusive. They are designed for freshmen and sophomores, but are open to juniors and seniors as well. They do *not* count as upper division work in any department.

Upper division courses carry numbers between 100 and 199, inclusive. They are open only to students who have attained upper division status and who have completed a lower division course or courses deemed preparatory by the department concerned. Lower division students are not usually admitted to upper division courses except in special cases with the consent of the instructor.

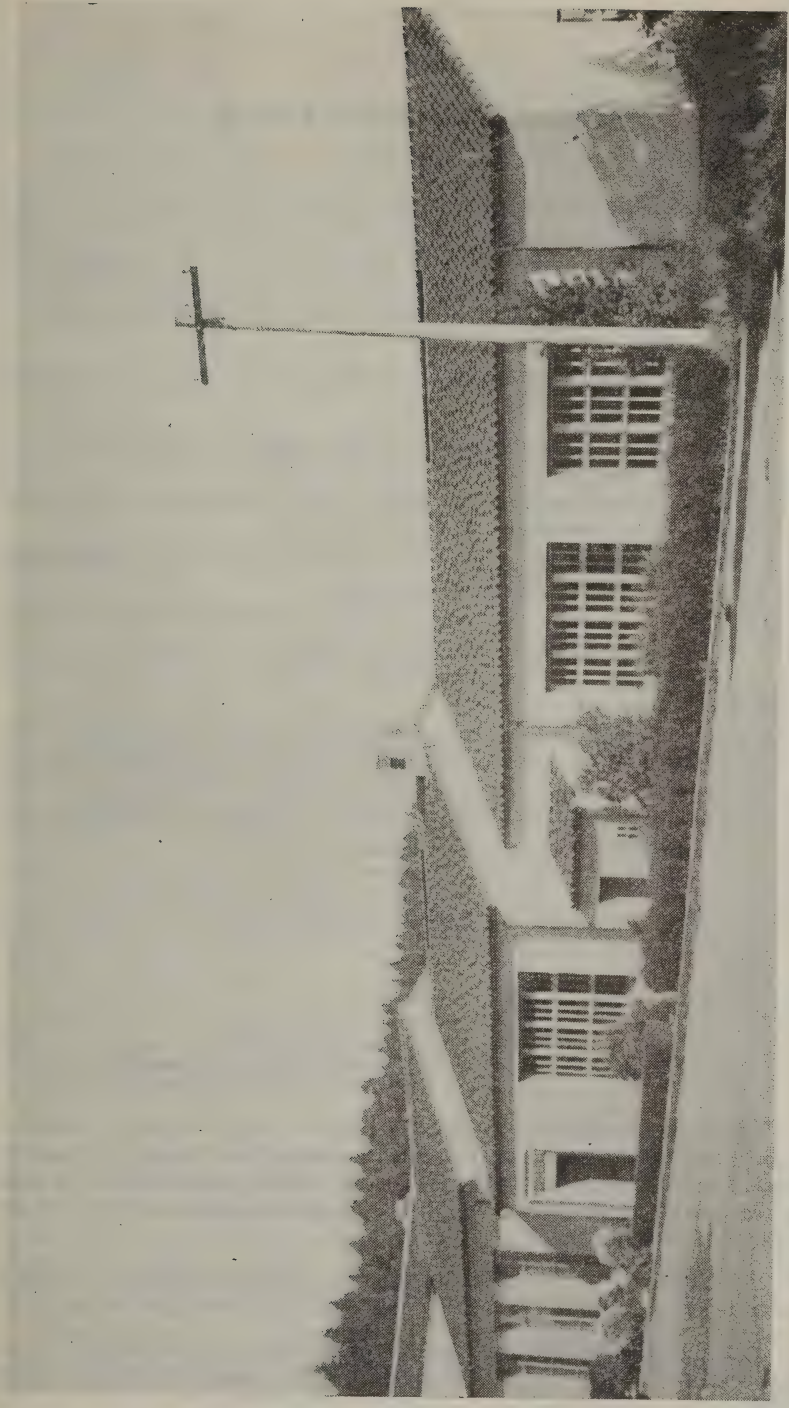
Graduate courses offered in fulfillment of requirements for the General Secondary Credential are given numbers between 200 and 299, and are open only to students who have been admitted to the graduate division.

Courses in directed teaching carry numbers between 300 and 399, inclusive. They are open only to upper division or graduate students.

Courses designated with a letter only (e.g., Mathematics C) are usually courses of high school level that are taught in college.

The semester in which a course is taught is indicated parenthetically after the title. Those courses designated "year" run consecutively through both the fall and spring semesters.

Because of varying exigencies from semester to semester in making up the schedule of classes, the instructor and time and place of meeting of each course of instruction are not given in the following descriptions. At the end of each semester a schedule of classes, containing such information for the following semester, is made up and mimeographed for distribution.



COLLEGE ELEMENTARY SCHOOL

SCHOOL OF EDUCATION

OBJECTIVES

It is one of the primary functions of the State Colleges to prepare teachers for the public schools of California. This training must be both (a) broadly cultural; and (b) highly specialized. It is the responsibility of the Division of Education to provide the specialized, technical, or professional phase of the students' preparation. To fulfill this obligation, the division seeks:

1. To develop an understanding of children; of processes of growth and learning.
2. To acquaint the students with the background, the objectives, and the responsibilities of the school in a democratic society.
3. To equip the prospective teachers with a knowledge of the subject matter and procedures of a modern school.
4. To provide opportunity for observation and for supervised teaching in a total modern school situation.
5. To assist these prospective teachers to formulate a modern, democratic, professional philosophy to enable them to meet happily and successfully the responsibilities and the opportunities of the teacher.
6. To arrange a program in consultation with other divisions of the College, which will enable the students to meet the general and the specialized requirements established by the State Department of Education and the College for the following specific credentials:

Kindergarten-Primary
General Elementary
General Junior High School
Special Secondary Credentials in
Art
Home Economics
Music
Physical Education
General Secondary
Special Supervision (See page 61)
Elementary School Supervision (See page 61)
Elementary School Administration (See page 61)

THE KINDERGARTEN-PRIMARY CREDENTIAL authorizes the holder to teach in any kindergarten and in grades one to three in any elementary school. The General Elementary credential authorizes the holder to serve as a teacher in any elementary school, or in grades seven and eight of any junior high school.

THE JUNIOR HIGH SCHOOL CREDENTIAL enables the holder to teach in grades seven, eight and nine of any elementary or secondary school.

THE SPECIAL SECONDARY CREDENTIALS authorize the holder to teach the special subject covered by the credential in elementary and secondary schools.

For all of these credentials, the basic requisite is an A.B. Degree, and the program may normally be completed within a four-year span, or its equivalent.

THE GENERAL SECONDARY CREDENTIAL authorizes the holder to teach in the secondary schools and in grades seven and eight of any elementary school. To obtain this credential, more intensive specialization in the subject matter field is required, and a fifth year of graduate study must be completed.

It is obvious that the General Elementary and the General Secondary Credentials offer wider employment opportunities than do the credentials which are restricted to limited areas of instruction. It is therefore advisable to secure one of these credentials, if possible, in conjunction with the Kindergarten-Primary, Junior High School, or Special Secondary Credentials.

It should be noted, also, that positions are more readily available in the elementary schools than in the secondary schools, and that studies which have been made indicate a prolonged trend in that direction.

The student interested in education as a profession is therefore urged to give serious thought to the type of work he is best equipped to do based upon considerations of probable efficiency in service rendered, and personal satisfaction derived therefrom.

REQUIREMENTS

UNITS REQUIRED. For those credentials which may be granted concurrently with the A.B. Degree, 120 units are required. Not more than 40 units in Education or any one subject field may be applied toward the basic 120 units. For each additional credential in this group, 12 more units are required, with the further stipulation that if the basic course pattern can be satisfied with less than 12 additional units, the difference must be taken in electives outside the field of Education.

If a candidate already possesses an A.B. Degree, the minimum requirement is 24 units completed at this College. Of these 24 units, not more than 12 may be taken in the extension division of the College.

PHYSICAL EXAMINATION. Candidates for all teaching credentials must pass a physical examination by the college physician before receiving the credential. This examination must have been made within the six-months period preceding date of application for the credential.

CITIZENSHIP

Only United States citizens may become candidates for long-term teaching credentials. Aliens who have filed their first papers are eligible to apply for short-term credentials. Failure to complete the naturalization process within six months of the date of eligibility will result in the revocation of the credential. After an applicant has become naturalized, he may qualify for a long-term credential.

FUNDAMENTALS. All candidates for a credential are required to show a working knowledge of the fundamental subjects in the elementary school curriculum—English language and literature, arithmetic, history, geography, and spelling. While some of these may be met by satisfactorily passing certain college courses, others may be satisfied by passing stand-

ardized tests given in the class in Orientation 2. A satisfactory score in these achievement tests is prerequisite to Education 320 and 321. Candidates for secondary credentials may be required to pass other tests of general educational competence.

MAJORS AND MINORS. Candidates for the General Elementary and the Kindergarten-Primary Credentials must complete a major in Education and one minor. Candidates for the General Junior High School Credential are required to complete a major and a minor in subject fields taught in junior high school. Candidates for the Special Secondary Credentials must complete a major in the special field and one minor. Candidates for the General Secondary Credential must complete a major and a minor in subjects taught in the high school. The special secondary and the general secondary majors require 24 units of upper division work, and the secondary minor requires a minimum of 15 units, though departmental requirements often exceed this minimum. The list of available majors and minors is found on pages 37, 39 and 40.

SCHOLARSHIP

In addition to the requirement of a scholarship average of "C" for graduation with the A.B. Degree, the College requires that candidates for teaching credentials maintain a general scholarship average of "C" and a grade of "C" or better in all required courses in Education. A "C" average is prerequisite to Education 133 and to all directed teaching. Candidates for credentials other than the General Secondary must also maintain an average of "C" in the teaching major and minor. For the General Secondary Credential, candidates must maintain an index of 1.50 on all work taken in the upper division, 1.50 on all work taken in the major field, 1.00 in all work taken in Education courses, and 1.75 in all work taken in the Graduate year.

In their directed teaching candidates must do satisfactory work, i.e., equivalent to a grade of "C" or better. If a student teacher falls short of the required standards, he or she will be given an "incomplete" and allowed another semester's trial. If the second semester's work is unsatisfactory, it may be assumed that the candidate lacks the requisite qualities for successful teaching. However, every effort is made to ascertain whether or not the candidate possesses these qualities before allowing him to undertake directed teaching. Only a grade of + or "F" is given for directed teaching; no letter grades are given. The units of the directed teaching courses do not figure in the calculation of the candidate's scholarship index.

ADMISSION TO CREDENTIAL CURRICULA. At the end of the sophomore year, credential candidates make formal application for admission to the teacher training curricula. A faculty committee passes upon each applicant, taking into account the following factors: scholarship, completion of lower division requirements, professional aptitudes, physical fitness, speech and language usage, personality, character, and diversity of interests.

Prior to admission to the year of graduate study for the completion of the requirements for the General Secondary Credential, the qualifications of the candidate will be further studied on the basis of scholarship and general fitness for secondary teaching.

Those students who are approved for admission study first the introductory courses in Education, and eventually, in either semester of the senior or graduate year, engage in directed teaching under the guidance of a trained supervisor. At the elementary level, the time is divided between the lower and the upper grades, while at the secondary level, the student will be assigned to subject fields included in his major, minor, or both.

During the semester in which directed teaching for an Elementary or Junior High School Credential is done, it is not expected that a student will register for academic courses or participate in extra-curricular activities.

COURSE REQUIREMENTS FOR THE A.B. DEGREE WITH TEACHING CREDENTIAL

The sequence of required courses listed on the following pages is not inflexible, but is suggested as the one which eliminates program conflicts. Courses which are offered both semesters may be taken out of sequence without creating serious program conflicts. *Courses offered only once a year should be taken in the semester recommended in the sequence.*

Courses required for the completion of the teaching majors and minors referred to in the credential sequences are listed in detail under the various divisions. For example, the student who wishes to secure a junior high school credential with a major in music will find all of the requirements listed below except the detailed requirements for the major. Those he will find listed under "Music," on page 75.

Students who wish to secure a Special Secondary Credential will find the requirements listed under the appropriate division.

The following is the basic lower division program suggested for all those desiring the General Elementary, General Junior High School, or Kindergarten-Primary Credentials.

FRESHMAN YEAR

(Candidates who have not had Elementary Algebra and Plane Geometry in high school must enroll for subcollegiate, noncredit courses in these subjects.)

First Semester		Second Semester	
Subject	Units	Subject	Units
Biology 10A ¹	3	Biology 10B ¹	3
English A or 1A	3	English 1A or 1B	3
Health and Hygiene 1	2	Music 10 *	3
Orientation II	1	Physical Education Activity	$\frac{1}{2}$
Physical Education 5 or 15	$\frac{1}{2}$	Social Science	3
Social Science	3	Elective or Minor	3
Elective	3		
Total	15 $\frac{1}{2}$	Total	15 $\frac{1}{2}$

* Subject requirement may be satisfied by examination; no unit credit.

¹ Students minoring in Botany or Zoology substitute Botany 1A-1B or Zoology 1A-1B for Biology 10A-10B.

SOPHOMORE YEAR

First Semester		Second Semester	
Subject	Units	Subject	Units
Art 1 -----	2	Physical Education Activity -----	$\frac{1}{2}$
Geography 5A -----	3	Physical Science 5B -----	3
History 70 * -----	2	Political Science 51 * or 1A -----	2-3
Music 60A -----	$\frac{1}{2}$	Psychology 1 -----	3
Physical Education Activity -----	$\frac{1}{2}$	Social Science ¹ -----	3-6
Physical Science 5A -----	3	Elective -----	3-0
Speech 1 -----	3		
Elective -----	$\frac{1}{2}$	Total -----	14 $\frac{1}{2}$
Total -----	14 $\frac{1}{2}$		

* Subject requirement may be satisfied by examination; no unit credit.

¹ This requirement may be satisfied, according to the student's interest and qualifications, by courses in one or more of the following: Economics, Geography, History, Political Science, or Sociology.

GENERAL ELEMENTARY CREDENTIAL

First Semester		Second Semester	
Subject	Units	Subject	Units
Biology 190 ¹ -----	2	Art 190 -----	2
Education 110 -----	2	Education 111 -----	2
Education 153 -----	2	English 178 -----	3
Industrial Education 51 -----	3	Music 190 -----	2
Mathematics 20 * -----	2	Physical Education 190 -----	2
Physical Education 191 -----	1	Elective or Minor -----	5
Elective or Minor -----	4		
Total -----	16	Total -----	16

SENIOR YEAR

Education 133A-133B -----	8	Education 320A-320B -----	10
Elective or Minor -----	6	Education 124 -----	2
		Education 137 -----	2
Total -----	14	Total -----	14

* Subject requirement may be satisfied by examination; no unit credit.

¹ Majors and Minors in Biological Sciences are not exempt from this required course.

KINDERGARTEN-PRIMARY CREDENTIAL

First Semester		Second Semester	
Subject	Units	Subject	Units
Biology 190 ¹ -----	2	Art 190 -----	2
Education 110 -----	2	Education 111 -----	2
Education 153 -----	2	Education 133A -----	4
Industrial Education 51 -----	3	English 178 -----	3
Mathematics 20 * -----	2	Music 190 -----	2
Physical Education 191 -----	1	Physical Education 190 -----	2
Elective or Minor -----	4	Elective or Minor -----	1
Total -----	16	Total -----	16

* Subject requirements may be satisfied by examination; no unit credit.

¹ Majors and minors in Biological Sciences are not exempt from this required course.

SENIOR YEAR

Education 194 -----	2	Education 124 -----	2
Education 321 -----	5	Education 193 -----	2
Elective or Minor -----	9	Education 320A -----	5
		Elective or Minor -----	3
Total -----	16	Total -----	12

For the combined General Elementary-Kindergarten-Primary course, the student must complete a total of 132 units, including the following courses in addition to those outlined above:

Education 133B -----	4 units
Education 320B -----	5 units
Elective -----	3 units

GENERAL JUNIOR HIGH SCHOOL CREDENTIAL

JUNIOR YEAR

First Semester		Second Semester	
Subject	Units	Subject	Units
Education 110 -----	2	Education 133B -----	4
Education 111 -----	2	Education 170 -----	2
Education 153 -----	2	Elective or Major or Minor -----	10
Elective or Major or Minor -----	10		
Total -----	16	Total -----	16

SENIOR YEAR

Education 195 ¹ -----	6	Education 320B -----	5
Elective or Major or Minor -----	8	Education 330 -----	5
		Education 124 -----	2
Total -----	14	Education 137 (or 148) -----	2
		Total -----	14

For the combined General Elementary-Junior High School course, the student must complete a total of 132 units, including the following courses in addition to those outlined above:

Industrial Education 51 -----	3 units
Mathematics 20 * -----	2 units
Physical Education 191 -----	1 unit
English 178 -----	3 units
Education 133A -----	4 units
Education 320A -----	5 units

Art 190	} if not included above, at least -----	4 units
Biology 190		
Music 190		
Physical Education 190		

Total ----- 22 units

Students who are interested in securing one or more of these credentials in combination with one of the Special Secondary credentials should consult the respective divisions concerning the requirements for such a program.

* Subject requirement may be satisfied by examination; no unit credit.

¹ Two units are required in the major field, and an additional four units are required from among other courses designated as either 190 or 195 in the respective subject fields.

Students who plan to seek a combination of two or more credentials should arrange to attend one or more summer sessions in order to complete the program within the four-year period.

THE GENERAL SECONDARY CREDENTIAL

SUMMARY OF GENERAL REQUIREMENTS

1. Possession of an approved bachelor's degree from a recognized college or university.
2. Proper certification as to health of the applicant.
3. A scholarship average of 1.50 for all work taken in the upper division and in the major field.
4. Approval of application for admission to candidacy and to the graduate division.
5. Fulfillment of the requirement in United States Constitution.
6. At least 24 units of graduate work, with a grade point average of 1.75 or better, including at least 8 units in courses of strictly graduate character.
7. Completion of a teaching major with at least 24 units of upper division work.
8. Completion of a teaching minor with at least 6 units of upper division work and a total of 15 units or more.
9. Completion of 26 units in courses in professional education, at least 6 of which must be of strictly graduate character, and including at least 4 units of directed teaching in the major or minor field.
10. Completion of at least 24 units of work in residence at Humboldt State College, including at least 12 units of the 24 required in the fifth year.

LOWER DIVISION

The general education and lower division requirements are listed for each respective major offered in connection with the General Secondary Credential under the appropriate divisions. The student should plan his work during the first two years with the assistance of his adviser in such a manner that he may meet the general education requirements and take the necessary lower division prerequisites for the completion of his chosen major and minor fields.

While Psychology 1, General Psychology, is a required course, each student is advised to take, in addition, Psychology 2, Applied Psychology.

UPPER DIVISION AND GRADUATE WORK

Upper division professional preparation for the General Secondary Credential consists in the completion of the following courses or their equivalent:

Education 110	2 units
Education 111	2 units
Education 115	2 units
Education 124	2 units
Education 148 or 137	2 units
Education 153	2 units
Education 170	2 units
Education 195	2 units (at least one field)
Total	16 units

The graduate requirements are six units of graduate courses, including Education 270, and at least four units in addition, chosen from Education 265, 299, and Psychology 212.

Each candidate for the General Secondary Credential must complete a minimum of four units of Education 340, Directed Teaching in the High School, with an assignment in his major field. Students are strongly urged to take a total of six units, with work in both the major and the minor fields.

For requirements other than Education, see the respective divisions. The following is a recommended sequence of professional courses:

First Semester		JUNIOR YEAR		Second Semester	
Subject	Units	Subject	Units		
Education 110	2	Education 111	2		
Other requirements or electives	14	Education 170	2		
		Other requirements or electives	12		
Total	16	Total	16		

SENIOR YEAR			
Education 115	2	Education 148 (or 137)	2
Education 153	2	Education 124	2
Other requirements or electives	10	Education 195	2
		Other requirements or electives	8
Total	14	Total	14

GRADUATE YEAR

(Program to be arranged jointly by the student's major adviser and the Director of Secondary Teacher Education)

Education 270	2 units
Education 340	4-6 units
Electives chosen from:	
Education 212	4 units
Education 265	
Education 299	
Graduate course in major field	3-6 units
Major, minor, or electives	11-6 units
Total	24 units

DESCRIPTION OF COURSES

UPPER DIVISION

110. Educational Psychology (fall, spring) 2 units

Application of the principles of psychology to education. Special attention to the results of scientific research and experimentation in the psychology of learning, personality development, and adjustment.

Prerequisite: Psychology 1.

Two one-hour periods per week.

111. Child Growth and Development (fall, spring) 2 units

A study of the eugenics and principles governing the mental and physical development of the normal child from birth to maturity. Educational methods and practices in the promotion of the physical and mental health of the child.

Prerequisite: Psychology 1.

Two one-hour periods per week.

115. Measurement in Education (fall) 2 units

A course dealing with the selection, use, and interpretation of tests in pupil diagnosis and appraisal; construction and validation of informal objective tests; use of simple statistical procedures in interpretation of scores; practice in administering and scoring tests.

124. Philosophy of Education 2 units

A study of the major theories of education, their development, and present interpretations in the light of democratic ideals. The student will be given an opportunity to do critical thinking of a type that will strengthen the foundations of his own educational philosophy and his understanding of the educational procedures that are currently practiced.

Two one-hour periods per week.

125. The Public School System (summer) 3 units**133A-133B. Elementary School Curriculum¹ 8 units**

This course gives prospective teachers a comprehensive overview of teaching in the elementary school. It covers such topics as courses of study; units of work; methods; materials; discipline, etc.

133A—Lower grades.

133B—Upper grades.

The time spent will be approximately equivalent to six hours a week of class work with four hours of observation and participation in classroom procedure.

137. Rural Education 2 units

A course designed to develop an understanding of the place of the school in the life of rural communities, ranging from the open country to small cities at the heart of rural areas. Special emphasis on school organization, records, and legal and professional relationships affecting the rural teacher.

Two one-hour periods per week.

140A. Administration of Elementary Schools (summer) 2 units**140B. Field Problems in Administration (summer) 2 units****141A. Supervision in Elementary Schools (summer) 2 units****141B. Field Problems in Supervision (summer) 2 units****145. School Finance (summer) 2 units****148. Legal and Professional Aspects of Education (spring) 2 units**

A survey of the legal bases of federal, state, county, and local school systems, with emphasis on the teacher's legal and professional responsibilities. The school register, periodic reports, simple phases of school finance and budgeting, community relationships, and professional ethics will be covered with constant reference to the California School Code.

¹ See scholarship standards, page 52.

153. Audio-Visual Education (fall) 2 units

A study of the vast array of educational resource materials available to teachers. Techniques of preparation, selection, use, and evaluation of materials. Opportunities provided for developing skill in care and operation of standard equipment.

170. Secondary Education (spring) 2 units

The philosophy, objectives, principles, organization, administration and functioning of public schools for grades seven through fourteen. Special attention to adolescent psychology and the problems of teaching pupils in the adolescent period.

Two one-hour periods per week.

†193. Art in Kindergarten Primary 2 units

This course is designed to give understanding and experience in the theory and technique of teaching art in a modern kindergarten-primary program. Some students find it particularly helpful to carry this course concurrently with directed teaching.

Two one-hour periods per week.

†194. Music and Games in the Kindergarten-Primary 2 units

This course provides theory and experience in teaching music from a creative approach. The student becomes acquainted with extensive materials for singing, rhythms, games, and listening.

195. The Teaching of Secondary School Subjects 2 units

Professional courses in the teaching of the major and minor fields at the secondary level. Each course will carry two units credit and will deal with the objectives, materials, and special procedures involved in teaching that field. Observation and experience in preparing teaching materials will be included.

These courses will be taken prior to or concurrently with Directed Teaching.

The numbers and titles of these courses, to be offered as needed, are:

Educ. 195A.	The Teaching of Art
Educ. 195B.	The Teaching of Business Education
Educ. 195E.	The Teaching of English
Educ. 195HE.	The Teaching of Home Economics
Educ. 195M.	The Teaching of Music
Educ. 195Ma.	The Teaching of Mathematics
Educ. 195S.	The Teaching of Science
Educ. 195SS.	The Teaching of Social Science
Educ. 195Sp.	The Teaching of Speech
Educ. 195PE.	The Teaching of Physical Education

199. Special Problems in Education

Research in Education to be carried on under the direction of the College. Credit to be arranged.

212. Adolescent Psychology (fall) 3 units

See Psychology 212, page 128.

239. Advanced Elementary School Curriculum (summer) 3 units**265. Pupil Personnel and Guidance (spring) 2 units**

A study of the scientific principles involved in assisting the student in the formulation and acceptance of adequate and appropriate personal, educational, and vocational objectives; a critical study of the bases of individual differences and of appropriate educational adjustments; organization and use of cumulative personnel data in guidance procedures.

270. Secondary School Curriculum 2 units

A thorough study of the development of the curriculum of modern secondary education, with emphasis on the interrelation of the various subject fields and their contributions to the aims of education. The selection, organization, and evaluation of textbooks, references, and other materials of instruction will be treated together with the

† Given if sufficient demand.

planning of appropriate learning experiences. Independent research and study will be encouraged in areas of the student's particular interests. Required of all candidates for the General Secondary Credential.

299. Special Problems in Education

2-4 units

Independent graduate level research on special problems. Particularly adapted to experienced teachers.

DIRECTED TEACHING

One of the most important stages in the education of a teacher is the pre-service experience in organizing and managing classroom situations that is obtained through the work in Directed Teaching. This work is generally scheduled near the close of the college course, and constitutes, in a real sense, the laboratory phase of professional preparation. Each student will register for the appropriate section of Directed Teaching as required by the professional sequence for the credential that he is seeking. The student is then given a room, grade, or subject assignment by the Director of either Elementary or Secondary Teacher Education with the assistance of the college supervisors in the respective fields. The work of the student teacher is carried on through the stages of observation, participation, and responsible teaching, under the guidance of carefully selected supervising teachers and supervisors from the School of Education and the various subject matter departments of the College. Students are urged to avoid participation in college extra-curricular activities and to take as little course work as possible during the time when they are doing their directed teaching.

Most of the directed teaching at the elementary levels is done in the excellently equipped College Elementary School, while cooperative arrangements with secondary schools in the college neighborhood make possible a wide variety of outstanding teaching situations at these levels.

320A-B. Directed Teaching—General Elementary¹

10 units

Students teach under supervision in the College Elementary School for one semester for the Elementary Credential. Taken during the same semester, each half requiring 9 weeks and carrying 5 units of credit.

320A—Lower Grades (Prerequisite: 133A)

320B—Upper Grades (Prerequisite: 133B)

321. Directed Teaching—Kindergarten¹

5 units

Students teach in the Kindergarten in the College Elementary School for 12 hours per week for one semester for the special Kindergarten-Primary Credential. Kindergarten theory and techniques are covered through conferences and assigned readings in connection with their teaching.

Prerequisite: Education 133A.

322. Directed Teaching in Elementary Physical Education

323. Directed Teaching in Elementary Art

324. Directed Teaching in Elementary Home Economics

325. Directed Teaching in Elementary Music

Courses 322-325, inclusive, are offered to meet the needs for directed teaching at the elementary level of candidates for the special secondary credentials in these four fields. They are under the supervision of the Director of Elementary Teacher Education and the supervisors from the respective departments and carry 2 units of credit each.

¹ See scholarship requirements, page 52.

330. Directed Teaching in the Junior High School¹ 5 units

Students seeking the Junior High School Credential will register for this section and will be given an appropriate assignment in a junior high school in the neighborhood. These students will work under the supervision of the Director of Secondary Teacher Education. This course may be taken during the same semester as Education 320B, the student spending nine weeks in the College Elementary School and nine weeks in the Junior High School.

Prerequisite: Education 133B, 170.

340. Directed Teaching in the High School¹ 4-6 units

Required of candidates for the General Secondary Credential. Each student will be assigned to a selected supervising teacher in a cooperating high school, where he will gradually assume responsibility for certain teaching assignments in his major or minor fields, together with other school activities. Supervision of the student's work is shared by the supervising teacher and his college supervisors.

Prerequisite: Education 170.

342. Directed Teaching in Secondary Physical Education**343. Directed Teaching in Secondary Art****344. Directed Teaching in Secondary Home Economics****345. Directed Teaching in Secondary Music**

Courses 342-345, inclusive, are offered to meet the needs of candidates for special secondary credentials in these four fields. They are under the supervision of the Director of Secondary Teacher Education and the respective departmental supervisors. They carry 2 to 4 units credit.

350. College Teaching in Physical Education 1-2 units

Students assist in college physical education classes under the supervision of the regular instructors in these courses.

Prerequisites: Education 322 or 342 and recommendation of the Chairman of the Division of Health and Physical Education.

Two to four one-hour periods per week.

360. Advanced Teaching 2-3 units

This course provides an opportunity for students to do advanced teaching which may include work with special subjects, or experimentation with methods of teaching.

ADMINISTRATIVE CREDENTIAL CURRICULA

An Elementary School Administration Credential is required for the position of principal of a school of more than five teachers. A supervisor devoting more than half-time to supervision of instruction is required to have an Elementary School Supervision Credential.

General requirements for these two credentials are the possession of a valid General Elementary Credential, and two years of successful teaching experience in the elementary school.

For the Elementary School Administration Credential, it is necessary to complete 30 semester units of upper division or graduate work in addition to the holding of the General Elementary Credential, or training which an institution approved or accredited to recommend for the Elementary School Administration Credential certifies as fulfilling institutional requirements for a full year of work in addition to the holding of the General Elementary Credential.

For the Elementary School Supervision Credential, the requirement is 24 semester units of upper division or graduate work in addition to the holding of the General Elementary Credential.

¹ See scholarship requirements, page 52.

Course requirements for these credentials are as follows :

	<i>Administration Supervision</i>	
Education 140A. Administration of Elementary Schools-----	2	2
Education 140B. Field Problems in Administration-----	2	-
Education 141A. Supervision in Elementary Education-----	2	2
Education 141B. Field Problems in Supervision-----	-	2
Education 239. Advanced Elementary School Curriculum----	3	3
Education 115. Measurement in Education -----	2	2
Education 125. The Public School System -----	3	-
Education 148. Legal Aspects of Education-----	2	-
Education 145. School Finance -----	2	-
Education 265. Pupil Personnel and Guidance-----	2	2
Electives chosen to round out the student's professional and general education, minimum of-----	10	11
Minimum total -----	30	24

RESIDENCE REQUIREMENT. One-half of the work for these credentials must have been taken at Humboldt State College, and at least 12 units in residence (not extension) here.

The Special Supervision Credential may only be granted to holders of Special Secondary Credentials in a given field. See the Registrar for requirements.

ORIENTATION

2. Orientation II (fall, spring)

1 unit

The purpose of this course is to help the student determine early in his college career whether or not he should pursue the teacher education curriculum. An attempt is made to point out the trends in secondary and elementary education, and considerable time is devoted to discussing education as a profession.

Two one-hour class periods per week plus special assignments.

SCHOOL OF ARTS AND SCIENCES

DIVISION OF FINE AND APPLIED ARTS

Art
Home Economics
Industrial Education

Music
Speech and
Dramatics

OBJECTIVES

The objectives of the Division of Fine and Applied Arts are to provide:

1. The opportunity for each student to attain an understanding and appreciation of the vital practical and aesthetic art opportunities and issues of the day through study and participation in the activities within the realm of fine and applied arts, encouraging each one to do the work best suited to develop his powers and to satisfy his interests.
2. A "general education" background in this field for those training to become teachers in the schools of the State.
3. Curricula leading to:
 - a. General Secondary Credential with major in Speech-English, enabling the student to teach in the secondary schools of the State. This program involves a year of graduate study.
 - b. The A.B. Degree with Special Secondary Credentials in
 - (1) Art
 - (2) Home Economics
 - (3) Music } authorizing the holder to teach these special subjects in the elementary and secondary schools of California
 - c. The A.B. Degree with liberal arts majors in
 - (1) Art, for the student interested in further specialized work in art, for personal or vocational objectives.
 - (2) Home Economics, for those students desirous of developing proficiency in homemaking, of employment in nonteaching homemaking fields, or of carrying on advanced study in home economics.
 - (3) Music, for the student interested in a nonteaching career in music or in advanced specialization in this field.
 - (4) Speech, with differentiated majors in Speech-English, Radio-Speech, or Speech and Dramatics, for students interested in careers in radio or the theater.
 - (5) Allied Arts, for students interested in acquiring a well-ordered knowledge of our cultural development for the intelligent enrichment of everyday living.
 - d. The A.B. Degree with Junior High School majors in Art, Home Economics, Industrial Education, Music, Speech and Dramatics, to qualify the student to teach in the junior high schools of the State.
4. Minors in Art, Home Economics, Industrial Education, Music (instrumental and vocal), Speech and Dramatics, and Radio.
5. Courses which partially fulfill the requirements for the Special Secondary Speech Correction Credential and the Special Secondary Credential in Industrial Education.
6. Terminal courses in drafting and photography for students interested in two-year programs which are vocational in character.
7. A variety of courses in the Fine and Applied Arts for students who wish to take their lower division work at Humboldt State College in preparation for a professional curriculum to be completed at another institution.

REQUIREMENTS FOR THE A.B. DEGREE IN ALLIED ARTS

This curriculum is a group major, developed through the cooperation of the entire Division of Fine and Applied Arts to provide a flexible pattern for a broadly cultural program that will contribute toward the intelligent enrichment of everyday life.

LOWER DIVISION

Elementary Algebra and Plane Geometry (if not taken in high school)	
Social Sciences ¹	12 units
Natural Sciences ¹	12 units
English 1A-1B	6 units
Psychology 1	3 units
Physical Education	2 units

Lower division prerequisites in the three fields of the student's choice for major emphasis.

UPPER DIVISION

Thirty-six units in three fields with not less than six nor more than 18 in any one field. Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page 39), and in one additional field to meet the minimum requirements of the State for a minor (see page 40).

Minimum lower division required	60 units
Minimum upper division required	40 units
Total units required	120 units

Scholarship Requirement: "C" average in the major in addition to the requirement for a "C" average in all work undertaken.

ART**REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN ART****LOWER DIVISION**

Art	22 units
(Art 1, 2, 3, 4, 6, 8, 15, 16)	
English 1A-1B	6 units
Mathematics (Elementary Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences (including Physics 15)	12 units
Physical Education	2 units
(Phys. Educ. 5 or 15 plus 1½ units L. D. Phys. Educ.)	
Psychology 1	3 units
Social Sciences	12 units
(Including History 70* and Political Science 51*, and at least one-year course. See page 38.)	
Electives	6 units
(Chosen from Foreign Language, Music, Philosophy, Speech Arts, or English 46A-46B or 74A-74B)	

UPPER DIVISION

Art	24 units
(Including Art 102, 103, 105, and 140)	

Other Requirements

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor chosen from the list of minors on page 40 and must maintain the following scholarship standards:

Index on all work taken toward the degree	1.00
Index on all work taken in major and minor	1.00

¹ See page 38.

* Subject requirement may be satisfied by examination; no unit credit.

The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

REQUIREMENTS FOR THE A.B. DEGREE WITH A SPECIAL SECONDARY CREDENTIAL IN ART

LOWER DIVISION

Art -----	16 units
(Art 1, 2, 3, 4, 6, 15)	
Orientation II -----	1 unit
Other lower division requirements are the same as given on page 64 for the A.B. Degree with a major in Art.	

UPPER DIVISION

Art -----	24 units
(Including Art 102, 103, 105, 140, 190)	
Education -----	20 units
(Education 110, 111, 115, 124, 148, 153, 170, 195A, 323 and 343)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor, chosen from the list of minors on page 40, and must maintain a "C" average in all work taken toward the degree in the major and the minor fields, and in all Education courses taken.

TWO-YEAR TERMINAL CURRICULUM IN PHOTOGRAPHY

RECOMMENDED SEQUENCE

Freshman Year

	<i>Sem. 1</i>	<i>Sem. 2</i>
Art 1 (Art Structure) -----	2	-
Art 2 (Design) -----	-	2
Art 15 (Lettering) -----	3	-
Chemistry 2 (Elem. Inorganic Chemistry) -----	3	-
English 1A-1B (Reading and Comp.) -----	3	3
Health and Hyg. 1 (Hygiene) -----	-	2
History 4A-4B (Western Civilization) -----	3	3
Phys. Educ. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 20 (Elementary Photography) -----	-	2
Elective -----	2	3
	<u>16$\frac{1}{2}$</u>	<u>15$\frac{1}{2}$</u>

Sophomore Year

Art 3 (Art Appreciation) -----	3	-
Commerce 2A (Typewriting) -----	2	-
Commerce 14A (Accounting) -----	3	-
Phys. Educ. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 2A-2B (General Physics Lectures) -----	3	3
Physics 21 (Advanced Photography) -----	2 or 3	-
Physics 22 (Applied Photography) -----	-	2 or 3
Pol. Sci. 51 (American Constitutional Government)* -----	-	2
Psychology 1 (General Psychology) -----	-	3
Speech 1 (Fundamentals of Speech) -----	-	3
Speech 25A (Dram. Workshop—Lighting) -----	2	-
Elective -----	-	2
	<u>15$\frac{1}{2}$-16$\frac{1}{2}$</u>	<u>15$\frac{1}{2}$-16$\frac{1}{2}$</u>

* See page 38.

REQUIREMENTS FOR

<i>Junior High School Major</i>		<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower division	12 units of lower division Art	6 units of lower division Art	10 units of lower division Art, including Art 1, 2, 3, and 8
Upper division	12 units of upper division Art (To be selected in consultation with the instructor)	6 units of upper division Art	8 units of upper division Art 103 and 4 units in specialized art subject courses
Total units required	24 units	12 units	18 units

Additional requirements for the Junior High School Credential are given in detail on pages 53-55.

A liberal arts group major which includes Art may be arranged in consultation with the student's adviser and the Registrar's office. See pages 129.

DESCRIPTION OF COURSES**LOWER DIVISION****1. Art Orientation****2 units**

Introduction to art through a series of assigned experiments embracing each of the major divisions of the space art fields, as related to everyday life. This course is designed to give the student a broad general view of the fields of artistic expression.

Two one-hour periods per week.

2. Design**2 units**

A study of the fundamentals of design, and their application, first in abstract black and white problems, then as functional designs for present-day industry. No previous experience in drawing or color necessary.

Three one-hour periods per week.

3. Art Appreciation**3 units**

A study of the development of art in the fields of painting, architecture, literature and music from pre-historical times to the present. Emphasis is placed on the visual arts.

Three one-hour periods per week.

4. Drawing**3 units**

Training in the fundamentals of drawing, perspective, form, space organization, and composition using various materials and techniques.

Three two-hour periods per week.

5. Introduction to Painting**2 units**

The study of painting media and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.

Two two-hour periods per week.

6. Crafts**3 units**

Introduction to various craft media and methods. Content of the course is varied to meet the craft interests and requirements of each class.

Three two-hour periods per week.

8. Color**3 units**

An analysis and use of the phenomena of pigmentary colors. This course is designed to prepare the student for further work in painting, design, interior decoration, and dress design.

Three one-hour periods per week.

- 15. Lettering** **3 units**
 Practice in the use of lettering tools, the study of basic alphabets, and the introduction to the layout principles of showcards and posters.
 Three one-hour periods per week.
- 16. Art Anatomy** **3 units**
 Analysis of the human figure from the aspects of skeletal and muscular structure, action, characteristic poses, and the methods of representation with a view to preparing the student for advanced drawing and painting.
 Three one-hour periods per week.
- 20. Elementary Photography (spring)** **2 units**
 Lectures on the optical principles, the chemistry of printing and developing, the technique of exposure. Laboratory work includes practice in dark-room techniques. Limited to 15 students.
 One one-hour lecture and one three-hour laboratory period per week.
- †21. Advanced Photography (fall, spring)** **2 or 3 units**
 Qualified students undertake work along various specialized lines.
 Prerequisite: Physics 20 and consent of the instructor.
 Hours to be arranged.

UPPER DIVISION

- 102. Advanced Industrial Design** **3 units**
 A study of functional needs, materials and structural methods applied to problems from industry. Drawing, rendering and model construction.
 Prerequisites: Art 1, 2, and 4.
 Three one-hour periods per week.
- 103. Advanced Appreciation** **3 units**
 This course is designed to meet the needs of art majors and minors. Individual research and seminar discussions of projects chosen by the student.
 Prerequisites: Art 1 and 3.
 Time, date, place to be arranged with instructor.
- 104. Advanced Drawing** **3 units**
 Continuation of the study of form and composition to include the construction and drawing of the human figure from the model, using various media and methods.
 Prerequisites: Art 1, 4, and 16.
 Three two-hour periods per week.
- 105. Painting** **1, 2, or 3 units**
 The student will work in a medium of his own choosing, under the supervision and criticism of the instructor. Problems will include still-life, landscape, and figure construction. The student provides his own materials.
 Prerequisites: Art 1, 2, 4, and 16.
 Date, time, place, to be arranged with instructor.
- 106. Advanced Crafts** **3 units**
 Prerequisites: Art 1, 2, 6.
 Three one-hour periods per week.
- 115. Advanced Lettering** **3 units**
 Continuation of the techniques and methods of lettering with a view to development of individual style and alphabets. Problems will include layout for advertising, posters, monograms, and will incorporate the use of illustrations as used in display design.
 Prerequisites: Art 2, 3, and 15.
 Three one-hour periods per week.
- 140. Ceramics** **3 units**
 See I. E. 105 (page 72).

† Given if sufficient demand.

190. Art Education**2 units**

For prospective teachers of art. Theory and practice in organization of courses of study for the elementary schools.

Prerequisite: Art 1.

Three one-hour periods per week.

HOME ECONOMICS**REQUIREMENTS FOR A.B. DEGREE WITH MAJOR IN HOME ECONOMICS****LOWER DIVISION**

Home Economics -----	12 units
(H. E. 1A-1B, 10A-10B)	
Art 1, 2 and 8 -----	8 units
English 1A-1B -----	6 units
Health and Hygiene 1 -----	2 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Sciences -----	13 units
(Chemistry 1A, 8, Bacteriology 1)	
Physical Education -----	2 units
(Phys. Educ. 15 plus 1½ L.D. units)	
Psychology 1 -----	3 units
Social Sciences -----	13 units
(Economics 1A, History 70,* Political Science 51,* Sociology 1A-1B. See page 38.)	

UPPER DIVISION

Home Economics -----	24 units
(Courses offered by other departments acceptable for the major: Education 111, Industrial Education 103)	
Education 111 -----	2 units
Natural Science (Physiology 101 strongly recommended) -----	(5 units)

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

The candidate must complete a minor, chosen from the list of minors on page 40, and must maintain a scholarship average of "C" in the major and the minor.

The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

**REQUIREMENTS FOR THE A.B. DEGREE WITH THE SPECIAL
SECONDARY CREDENTIAL IN HOMEMAKING****LOWER DIVISION**

Home Economics -----	16 units
(H.E. 1A-1B, 10A-10B, 7, and 20)	
Orientation II -----	1 unit
Other lower division requirements are the same as given above for the A.B. Degree with a major in Home Economics.	

UPPER DIVISION

Home Economics -----	24 units
(H. E. 101A, 120, 122, 130, 140, 150, 190, and 6 units from: H. E. 160, 165, 199)	
Education -----	20 units
(Education 110, 111, 115, 124, 148, 153, 170, 195HE, 324, and 344)	
Industrial Education 103 -----	3 units
(Physiology 101 strongly recommended) -----	(5 units)

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

The candidate must complete a minor, chosen from the list of minors on page 40, and must maintain a "C" average in all work taken in Education courses, and in the major and minor fields.

* Subject requirement may be met by examination; no unit credit.

REQUIREMENTS FOR

<i>Junior High School Major in Home Economics</i>		<i>Minor in Home Economics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	H.E. 1A-1B ----- 6 units H.E. 10A-10B --- 6 units	6 units of lower division Home Economics	H.E. 1A-1B---- 6 units H.E. 10A-10B-- 6 units
Upper Division	H.E. 101A-101B - 6 units H.E. 190----- 2 units Two courses from : H.E. 120----- 3 units H.E. 122----- 3 units H.E. 130----- 3 units H.E. 140----- 3 units H.E. 160----- 3 units	6 units of upper division Home Economics (Not to in- clude Home Economics 190)	6 units of upper division Home Economics to be chosen in consultation with departmental representative
Total Units Required	26 units	12 units	18 units

Additional requirements for the Junior High School Credential are given in detail on pages 53-55.

A liberal arts group major which includes Home Economics may be arranged in consultation with the students' adviser and the Registrar's office. See page 129.

DESCRIPTION OF COURSES

LOWER DIVISION

A. Introduction to Home Economics

1 unit

This survey course is designed to acquaint the student with the entire overview of the Home Economics field, and the many ways in which it may serve any individual; information which may lead into vocational goals or develop an appreciation of a higher standard of living. (Open to both men and women and recommended for Freshmen.)

One one-hour period per week.

1A-1B. Clothing Construction (year)

3-3 units

First semester: Laboratory work directed towards the development of good technique in clothing construction processes; use of sewing machines and hand stitches; selection and alteration of commercial patterns; correct fitting methods; use of cotton, linen, and rayon fabrics in making garments.

Second semester: Continuation of the work of the first semester. Development of more difficult technique in construction, alteration, and designing of garments. Emphasis on use of woolen fabrics and on original design.

One one-hour lecture and two three-hour laboratory periods per week.

1A is not prerequisite to 1B.

5. Handcrafts

2 units

The use of leisure time for pleasure and profit in cultivating useful hobbies for home and handcrafts, as knitting, laces, household linens, decorating and renovating clothing or home furnishings.

Open to all; nontechnical.

Two one-hour periods per week.

7. Textiles Selection

2 units

Consumer problems in textile selection of clothing and household fabrics. Identification of the major and minor fibers; laboratory tests on fibers; scientific principles applied to the care and treatment of fabrics. Open to all.

Two one-hour periods per week.

10A-10B. Food Study (year)

3-3 units

First semester: A scientific study of the composition and preparation of foods; food experiments; analysis of receipts and cookery processes and their application to meal preparation.

Second semester : Continuation of the work of the first semester. Emphasis on the planning, marketing, preparing, and serving of meals.

Prerequisite : Chemistry 1A (consult with instructor).

One one-hour lecture and two two-hour laboratory periods per week.

11. Meal Planning and Serving

2 units

Meal planning, preparation and serving of all three daily meals. Special appointments for various occasions, including an appreciation for acceptable etiquette and table decorations. Emphasis on relative costs and nutritive values, and on time and energy conservation.

One one-hour lecture and one three-hour laboratory period per week.

20. Elementary Nutrition

2 units

A study of nutrition with special emphasis on human requirements, best selection of foods for individuals and families, and economy meals. Practice in food preparation and menu planning. Designed to meet the requirements for Social Service, Wildlife Management, and other curricula.

Two one-hour periods per week.

UPPER DIVISION

101. Advanced Clothing and Design

3 units

Advanced garment construction to acquire skills and time-saving techniques. For majors and minors in Home Economics.

One one-hour lecture and two three-hour laboratory periods per week.

120. Dietetics

The fundamentals of human nutrition and the nutritive properties of foods with application to the feeding of individuals and special groups; dietaries on limited incomes.

Prerequisite : Home Economics 10A-10B and 20.

Two one-hour lectures and one three-hour laboratory period per week.

122. Nutrition Work With Children

2 units

The nutritional needs of children of school age ; methods of judging good and poor nutrition in children ; causes and prevention of malnutrition ; formation of desirable food habits ; problems of the school lunchroom. Open to all teaching credential candidates.

Two one-hour periods per week.

130. Home Management

3 units

The evaluation of time, energy, and money in performing routine chores of care of the family, meals, laundry, services, special cleaning, entertaining and working for satisfaction in attaining a relative set of values on goals in homemaking.

Three one-hour periods per week, supplemented by actual home living practices.

140. Home Furnishings

3 units

A study of the house, its furnishings, equipment, interior decoration and arrangement, to satisfy varied family needs and interests.

Prerequisite : Art 1 and 2 ; Industrial Education 103 strongly recommended.

Three one-hour periods per week.

150. Child Care and Feeding

2 units

The importance and influence of proper care and nutrition from prenatal stage to infant period. Diet needs for expectant mothers. Infant feeding and foods introduced through first six years of life. Establishing food habits in school children.

Open to prospective teachers or others interested.

Two one-hour periods per week.

160. Family Relationships

3 units

See Sociology 160.

165. Family Economics

3 units

Special problems in personal and family finances in theory and practice, involving the evaluation of home production and consumption of goods and services ; expenditures

for the essentials and luxuries of life as related to desired goals of health, ambition, and a satisfactory standard of happy home life.

Three one-hour periods per week.

Prerequisite: Economics 1A.

190. Homemaking Problems in the Elementary School

2 units

This course is designed to acquaint the elementary teacher minoring in Home Economics with homemaking procedures that can be adapted for use in the upper grades or junior high school in correlation with a given unit of work. Not applicable toward a minor in Home Economics.

Two one-hour periods per week.

199. Special Problems in Home Economics Education

1-3 units

A flexible arrangement designed to meet the individual needs and interests of the major of upper division standing. Each person desiring such a course must have approval of the Home Economics staff. The hours, form of procedure, and objectives of the course must meet the approval of the instructor concerned.

INDUSTRIAL EDUCATION

SUGGESTED PROGRAM FOR THE SPECIAL SECONDARY CREDENTIAL IN INDUSTRIAL EDUCATION

(Note: From two to three years' work for this credential may be taken in this College; the remainder of the program must be taken in an institution authorized to issue this credential.)

	Units
Art 1, 2, 15, 21	10
Education 110, 111, 115, 170	8
English 1A-1B	6
Engineering 22, 40	5
Health and Hygiene	2
Industrial Education 5, 6, 7A, 12, 50, 51, 101, 123	22
Natural Science	12
(Including Chemistry 1A)	
Physical Education	2
(P. E. 5 plus 1½ units Lower Division Physical Education)	
Psychology 1	3
Social Science	12
(Including History 70 * and Political Science 51.* See page 38.)	
Speech 1	3

(The student should consult the specific requirements of the institution to which he expects to transfer. From one and one-half to two years would probably be required in the terminal institution to complete the requirements for the credential.)

SUGGESTED PROGRAM FOR TWO-YEAR TERMINAL COURSE IN DRAFTING

	Units
Industrial Education 7A, 13	5
Art 2, 3, 4, 15	12
English 1A-1B or Speech 1, and 2 or 3	6
Engineering 1A-1B, 22, 23, 24	12
Mathematics C, D	6
Natural Science	8
(Physics 2A-2B, 3A-3B)	
Physical Education	2
Psychology 1	3
Social Science	4
(History 70 * and Political Science 51.* See page 38.)	
Electives	2

If the student qualifies for upper division work, it would be desirable for him to include in his program Industrial Education 103, 123, and 130.

* Subject requirement may be satisfied by examination; no unit credit.

REQUIREMENTS FOR

Junior High School Major in Industrial Education

Lower Division	Ind. Educ. 7A_____	2 units
	Ind. Educ. 51 ¹ _____	3 units
	Additional Lower Division Ind. Educ. _____	7 units
Upper Division	Ind. Educ. 101_____	3 units
	Ind. Educ. 130_____	2 units
	Additional Upper Division Ind. Educ. _____	7 units
Total units required		24 units

Additional requirements for the Junior High School Credential are given in detail on pages 53-55.

A liberal arts group major which includes Industrial Education may be arranged in consultation with the student's adviser and the Registrar's office. See page 129.

Minors in Industrial Education

General Elementary

Junior High School and Secondary

Lower Division	Ind. Educ. 15 or 15 ¹ _____	3 units	Ind. Educ. 7A_____	2 units
	3 or more units chosen from—		Ind. Educ. 51 ¹ _____	3 units
	Ind. Educ. 5_____	2 or 3 units	4 or more units chosen from—	
	Ind. Educ. 6_____	2 units	Ind. Educ. 5_____	2 or 3 units
	Ind. Educ. 7A_____	2 units	Ind. Educ. 12_____	3 units
	Ind. Educ. 12_____	3 units	Ind. Educ. 13_____	2 or 3 units
	Ind. Educ. 51 ¹ _____	3 units	Ind. Educ. 15_____	3 units
Upper Division	Art 6_____	2 or 3 units	Art 6_____	2 or 3 units
	Ind. Educ. 191 (men only)_____	2 units	Ind. Educ. 130_____	2 units
	4 or more units chosen from—		Ind. Educ. 190_____	2 units
	Ind. Educ. 101_____	2 or 3 units	5 or more units chosen from—	
	Ind. Educ. 105_____	2 units	Ind. Educ. 101_____	2 or 3 units
	Ind. Educ. 112_____	2 or 3 units	Ind. Educ. 103_____	2 or 3 units
	Ind. Educ. 123_____	3 units	Ind. Educ. 105_____	2 units
	Ind. Educ. 124_____	2 or 3 units	Ind. Educ. 112_____	2 or 3 units
Total units required	Ind. Educ. 130_____	2 units	Ind. Educ. 125_____	3 units
		12 units		18 units

¹ Industrial Education 51 will be waived as a subject requirement for students who have had two years of high school manual training.

DESCRIPTION OF COURSES

LOWER DIVISION

5. Pottery (fall)

2 or 3 units

A course in an interesting and age-old industry. Designing, casting, throwing, modeling, glazing, and firing.

Two or three three-hour periods per week.

†6. Cement and Concrete Work (spring)

2 units

Theory and practical application of concrete work, including ornamental cement.

Two three-hour periods per week.

† Given if sufficient demand.

7A. Mechanical Drawing (fall, spring) 2 units

A fundamental course in mechanical drawing which covers orthographic, isometric, and cabinet projections, intersection of solids, sections, screws and threads, cams, blue prints, etc.

Three two-hour periods per week.

9. Stone Polishing and Plastics (spring) 2 or 3 units

In this course an age old art is united with a very modern one. Stone cutting has been practiced for many years; plastic is very modern, but has many possibilities. The combination of the two subjects makes an interesting study.

Two or three three-hour periods per week.

†12. Metal Arts (spring) 3 units

The application and use of various metals. Hammering of copper, grinding of stones, casting, silver plating, soldering, enameling.

Three three-hour periods per week.

13. Architectural Drafting (spring) 2 or 3 units

A beginning course in the fundamentals of house design. Floor plans, elevations, perspective drafting, and architectural detail. A course in mechanical drawing either in high school or college is advisable as background.

Two or three three-hour periods per week.

15. Crafts in the Elementary Schools (fall, spring) 3 units

A course in the use of native materials and waste products applicable to the elementary grades. Magazine binding, waste-basket making, weaving, toy making, and pottery are some of the kinds of work done. Required of all women candidates for a credential.

Three one-hour class periods and six hours of outside work per week.

16. Toycraft 2 or 3 units

This course is planned for those students who are interested in child life and the many ingenious toys that it is possible to make for children.

Two or three-hour periods per week.

50-150. Introduction to Radio (fall) 3 units

Sound and radio waves. Theory and operation of oscillators, amplifiers, rectifiers, frequency meters, vacuum tubes, cathode ray oscilloscopes, and continuous wave radiation equipment. Laboratory work in circuit design, testing, and operation.

One lecture and two three-hour laboratory periods per week.

51. Fundamentals of Industrial Education (fall, spring) 3 units

The fundamentals of industrial education in terms of teaching industrial arts in the elementary grades. Covers methods, courses of study, construction of objects of the elementary grades level, and care and use of equipment. Required of all men candidates for a teaching credential.

Three three-hour periods per week.

UPPER DIVISION

101. Advanced Woodworking (spring) 2 or 3 units

Building of boats, airplane gliders, and large pieces of similar nature.

Prerequisite: Industrial Education 51 or its equivalent.

Two or three three-hour periods per week.

103. The Art of House Design (fall) 2 or 3 units

A thorough-going study of home planning and building in which an entire house is planned in structure and furnishings.

Prerequisite: Industrial Education 13.

Two or three three-hour periods per week.

† Given if sufficient demand.

105. Advanced Pottery (fall)**2 units**

Study of the problems involved in pottery making, from the standpoint of both teaching and business. Designing, decorating, throwing, packing, firing of the kiln are a few of the subjects studied.

Prerequisite: Industrial Education 5.

Two three-hour periods per week.

†112. Advanced Metal Arts (spring)**2 or 3 units**

An advanced study of the work offered in Industrial Education 12. Practice in the use of pewter, aluminum, silver, bronze, and other metals.

Prerequisite: Industrial Education 12.

Two or three three-hour periods per week.

†113. Machine Shop**3-3 units**

See Engineering 40-41.

†123. Pattern-Making and the Theory of Foundry Practice (fall)**3 units**

A study in the basic principles of foundry practice and pattern-making. The construction of simple patterns, and casting in softer metals.

Prerequisite: Industrial Education 51 or its equivalent.

Three three-hour periods per week.

†124. Advanced Cabinet and Other Wood Construction (fall)**2 or 3 units**

Advanced course in woodwork designed for students interested in teaching or in problems of advanced construction.

Prerequisite: Industrial Education 101.

Two or three three-hour periods per week.

†125. Carpentry (spring)**3 units**

A study of house construction in which houses in miniature are built to illustrate construction problems. Recommended as a suitable course to follow Industrial Education 103.

Prerequisite: Industrial Education 51 or its equivalent.

Three three-hour periods per week.

†130. Industrial Arts Design (spring)**2 units**

Theory and practice in the designing of objects in the industrial arts and their decoration.

Prerequisite: Industrial Education 7A.

Two one-hour lecture and two two-hour laboratory periods per week.

†190. Management of School Shops (spring)**2 units**

A course in the objectives, methods, and content of shop programs for the grade schools. Intended for students majoring in Industrial Education.

Prerequisite: Industrial Education 51 and upper division status.

Two one-hour periods per week.

MUSIC**REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN MUSIC****LOWER DIVISION**

Music	20 units
(Music 20A-20B, 21A-21B, 11A-11B, 2 units from Music 80, 81, 84, or 86)	
English 1A-1B	6 units
Mathematics (Elementary Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences	12 units
(Including Physics 15)	
Physical Education	2 units
(Phys. Educ. 5 or 15 plus 1½ units L.D. Phys. Educ.)	

† Given if sufficient demand.

Psychology 1	3 units
Social Sciences	12 units
(Including History 70 * and Political Science 51,* and at least one year course. See page 38)	
Electives	6 units
(Chosen from Foreign Language, Philosophy, Speech, Art, or English 46A-46B, or 74A-74B)	

UPPER DIVISION

Music	24 units
(Music 101-102, 123, 124, 4 units from Music 180, 181, 184 or 186, plus 10 units in music electives)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor chosen from the list of minors on page 40 and must maintain a "C" average in the major and the minor, as well as in all work taken toward the degree.

The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

**REQUIREMENTS FOR THE A.B. DEGREE WITH A SPECIAL
SECONDARY CREDENTIAL IN MUSIC**

LOWER DIVISION

Music	28 units†
(Music 20A-20B, 21A-21B, 11A-11B, 11C, 4 units from 71, 72, or 73, 4 units from 80, 81, 84, or 86, and 2 units in Music Activities)	

Orientation II	1 unit
Other lower division requirements are the same as given above for the major in music.	

UPPER DIVISION

Music	24 units
(Music 101-102, 123, 124, 131, 141, 146, 190, 4 units from 180, 181, 184, or 186; 2 units in Music Activities)	
Education	20 units
(Education 110, 111, 115, 124, 148, 153, 170, 195M, 325, and 345)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

The candidate must complete a minor, chosen from the list of minors on page 40, and must maintain a "C" average in all work taken, in all Education courses, and in the major and minor fields.

REQUIREMENTS FOR

Junior High School Major

Lower Division	Music 11A-11B	4 units
	Music 20A-20B	6 units
	Music 21A-21B	6 units
	† Music 71, 72, or 73 (two courses)	4 units
	Music Activities and Class Lessons	3 units
Upper Division	Music 101-102	6 units
	Music 141	2 units
	Music 146	2 units
	Music 190	2 units
	Music Activities and Class Lessons	4 units
Total units required		39 units

* Subject requirement may be satisfied by examination; no unit credit.

† If music majors are to receive credit in music activity courses, they must be taken in addition to the basic 120 units required for the degree.

A liberal arts group major which includes Music may be arranged in consultation with the student's adviser and the Registrar's office. See page 129.

Additional requirements for the Junior High School Credential are given in detail on pages 53-55.

<i>Instrumental Minor</i>			<i>Vocal Minor</i>		
	Piano Test		Piano Test		
Lower Division -----	Music 10 -----	3 units	Music 10 -----	3 units	
	Music 11A-11B --	4 units	Music 11A-11B --	4 units	
	Music 50 or 51----	1 unit	Music 60 or 65----	2 units	
	† Music 71, 72, or		Music 76 -----	1 unit	
	73 (two courses)	4 units			
Upper Division -----	Music 101 or 102--	3 units	Music 101 or 102--	3 units	
	Music 131 -----	1 unit	Music 146 -----	2 units	
	Music 141 -----	2 units	Music 160 or 165--	2 units	
	Music 150 or 151--	1 unit			
					17 units
Total units required-----		19 units			

† To be taken in the two orchestral sections in which student has not had training.

DESCRIPTION OF COURSES

LOWER DIVISION

3-4. Music Literature (year) 3-3 units

A course in music history and appreciation designed for students who are not majoring in music, but wish to know more about music as a part of their general education. Music correlated with the other arts through lectures and recordings.

Three one-hour periods per week.

10. Musicianship (fall, spring) 3 units

Elementary work in ear training, sight singing, and piano keyboard; designed to give the fundamentals of music in a direct and concise manner.

Required for all students working toward a teaching credential. Music majors not eligible.

Three one-hour periods per week.

11A-11B. Ear Training and Sight Singing (fall, spring) 2-2 units

Designed to give a thorough foundation in pitch, rhythm, and harmony in the major and minor modes. These elements are presented through rhythmic and melodic dictation, sightsinging, and melodic writing.

Prerequisite: Music 10.

Two one-hour periods per week.

11C. Advanced Ear Training and Sight Singing (fall) 2 units

Advanced work in harmonic ear training. Training in complex rhythms and chromatically altered melodies.

Prerequisite: Music 11A-11B.

Two one-hour periods per week.

20A-20B. Harmony (year) 3-3 units

Harmonization of melodies; scales, intervals, triads, the dominant seventh, non-harmonic tones, simple modulations, secondary seventh chords; keyboard harmony.

Three one-hour periods per week.

21A-21B. Advanced Harmony (year) 3-3 units

Essentials of advanced harmony embracing chromatic alterations, modulations by means of altered chords, use of all nonharmonic tones, original compositions, keyboard work.

Prerequisite: Music 20A-20B.

Three one-hour periods per week.

70A-70B. Piano (year) 1-1 unit
Class instruction open to any student who has a desire to learn to play the piano.
No preliminary knowledge of piano is needed.
One one-hour period per week.

70C-70D. Intermediate Piano (year) 1-1 unit
Class instruction open to any student who has had the equivalent of Music 70A-B.
One one-hour period per week.

71. Strings (fall) 2 units
Violin, viola, 'cello, string bass. Study and practice of one or more of the string instruments supplemented by a study of arranging for string instruments, teaching methods, and the elementary physics of sound.
Two one-hour periods per week.

72. Brass Instruments (spring) 2 units
Tone production, breathing, transportation, physics of sound, and arranging for brass instruments will be briefly covered in addition to the study of the instruments.
Two one-hour periods per week.

73. Woodwinds (fall) 2 units
The problems of embouchure, breathing, care of the instrument, physics of sound, transposition, and elementary arranging will be covered. Each student will play one or more of the woodwind instruments, with additional theoretical study.
Two one-hour periods per week.

75A-75B. Beginning Violin (year) 1-1 unit
Class instruction open to any student who has a desire to learn to play the violin.
Prerequisite: Music 71 or equivalent.
One one-hour period per week.

75C-75D. Intermediate Violin (year) 1-1 unit
Class instruction in violin open to any student who has had the equivalent of Music 75B.
One one-hour period per week.

76A-76B. Voice (fall, spring) 1-1 unit
Elementary class instruction in voice, designed to help students improve tone quality and musicianship of their singing.
One one-hour period per week.

76C-76D. Intermediate Voice 1-1 unit
Class instruction open to any student who has had the equivalent of Music 76A-76B.
One one-hour period per week.

UPPER DIVISION

101-102. Music History (year) 3-3 units
A chronological study of vocal and instrumental music from plainsong through modern music. Lectures integrating the history of music with other arts and general thought of the time. Music presented through recordings.
Three one-hour periods per week.

123. Counterpoint and Composition (fall) 2 units
Strict counterpoint in all orders. Two-, three-, and four-part writing.
Two one-hour periods per week.
Prerequisite: Music 21A-21B.

124. Form and Analysis (spring) 2 units
Review of structural elements such as section, phrase, and period. Analysis by ear and by score. Binary, ternary, three rondo, and sonata allegro forms.
Two one-hour periods per week.
Prerequisite: Music 123.

- 131. Instrumental Arranging** (fall) 2 units
 A practical course in arranging music for various combinations of instruments, with special reference to school orchestras. To be taken in senior year.
 Prerequisite: Music 70, and consent of the instructor.
 Two one-hour periods per week.
- 141. Instrumental Conducting** (spring) 2 units
 Baton and rehearsal technique; the problems associated with various kinds of instrumental organizations; program building; principles of interpretation.
 Two one-hour periods per week.
- 146. Choral Conducting** (spring) 2 units
 Same as Music 141 but applied to choral singing.
 Two one-hour periods per week.
- 170A-170B. Advanced Piano** (year) 1-1 unit
 Class instruction open to any student who has had the equivalent of Music 70C-70D.
 One one-hour period per week.
- Music 190. Elementary Music Education** (fall, spring) 2 units
 Survey of the field of public school music and practical devices for teaching music in the public school from the first grade through the junior high grades. Covers the philosophy of music and practical devices for teaching such phases as rhythm, singing, creative expression, music-listening, and playing of simple instruments. (Not applicable to a minor in Music.)
 Prerequisite: Music 60A or 65A-65B.

MUSICAL ORGANIZATIONS

- 50A, B, C, D; 150A, B, C, D. Orchestra** (fall, spring) 1 unit
 Affords qualified students an opportunity for study of good orchestral composition and for learning to play with interpretation, finish, and precision. Outside practice necessary.
 Prerequisite to Music 150: Music 50A, B, and consent of instructor.
 Two two-hour periods per week.
- 51A, B, C, D; 151A, B, C, D. Band** (fall, spring) 1 unit
 Playing of both popular and symphonic band music. During the fall athletic season the band plays for athletic contests and rallies. Thereafter attention is devoted entirely to symphonic band music for playing in public concert.
 Prerequisite to Music 151: Music 51A, B.
 Two one-hour periods per week.
- 58-158. Piano Ensemble** 1 unit
 Study of duo-piano works of all periods in music; also original piano duets. Interpretation and technique of ensemble playing.
 Two one-hour periods per week.
- 60A, B, C, D; 160A, B, C, D. College Chorus** (fall, spring) 1 unit
 A musical organization open to any member of the student body without try-outs. It affords opportunity to become acquainted with some of the best music of the past and present. The chorus appears in several public performances during the year.
 Prerequisite for Music 160: Music 60A, B.
 Two one-hour periods per week.
- 65A, B, C, D; 165A, B, C, D. A Cappella Choir** (year) 1-1 unit
 A selected group of singers who sing a cappella literature ranging from the sixteenth century to the present. Principles of style and interpretation, voice production, and other attributes of musicianly singing are dwelt upon to a much greater extent than is possible in the College Chorus. The choir gives many concerts and usually goes on tour in the spring of each year.
 Prerequisite for Music 165: Music 65A-65B.
 Two two-hour periods per week.

PRIVATE LESSONS

Credit for private lessons will be given on the basis of one unit for one half-hour lesson per week and the necessary practice for the lesson for a semester, at the fees indicated below.

(Class lessons in each of these fields are covered by regular tuition, without extra charge.)

80-180. Private Lessons—Piano **1 unit**

Miss Jackson, \$8 per month; Mr. Fulkerson, \$5 per lesson (hour lessons only); Mrs. Jeffers \$2 per half hour.

81-181. Private Lessons—Violin **1 unit**

Mrs. Griffith, \$2 per lesson (45 minutes).

84-184. Private Lessons—Organ **2 units**

Miss Jackson, \$10 per month (hour lessons).

86-186. Private Lessons—Voice **1 unit**

Mr. Barlow, \$2 per lesson.

SPEECH

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN SPEECH AND ENGLISH

LOWER DIVISION

Speech 12 units
(Speech 1, 2, 3, plus 3 elective units in Speech)

English 12 units
(English 1A-1B, 46A-46B)

Mathematics (Elementary Algebra and Plane Geometry if not taken in high school)

Natural Sciences 12 units
(See page 38.)

Orientation II 1 unit

Physical Education 2 units
(Including 5 or 15)

Psychology 1 3 units

Social Sciences 12 units
(Including History 70* and Political Science 51* and one year-course.
(See page 38.)

Electives 6 units
(Chosen from Music 3-4, Art 1-2, Foreign Language or Philosophy
6A-6B)

Completion of lower division requirements for a secondary minor. (See list on page 40.)

UPPER DIVISION

Speech 18 units
(Speech 155, 156, 171, plus 9 units chosen from: Speech 102, 103, 112,
118, 125, 130, 180)

English 6 units
(English 112 or 115, 136A, 136B, or 162)

Education 16 units
(Education 110, 111, 115, 124, 148 or 137, 153, 195Sp, 170; see recommended sequence on page 57.)

Completion of upper division requirements for a secondary minor.

OTHER REQUIREMENTS

Electives to bring total to 120 units, thus completing requirements for the A.B. Degree.
For admission to the graduate year, the student must maintain the following scholarship standards:

Index on all work taken in the upper division.....	1.50
Index on all work taken in the major field.....	1.50
Index on all work taken in Education courses	1.00
Index on all work taken in the minor field	1.00

* Subject requirement may be satisfied by examination; no unit credit.

GRADUATE YEAR

Speech	6 units
(Chosen from Speech 257, 272, or 281)	
Education	10-12 units
(Education 270, 340, and 4 units from 212, 265, or 299)	
Major, minor, or electives	6-8 units
An index of 1.75 is required on all work taken in the graduate year.	
A minimum of 24 units in the graduate year is required. Part of this work may be taken in approved upper division courses.	

Special Secondary Credential in Speech Correction

This credential may be secured by meeting the requirements of the State Board of Education. Over one-half of the requisite courses may be taken here and the rest at another institution specializing in this field. For particulars, see the Registrar.

LIBERAL ARTS DEGREE CURRICULA IN THE SPEECH FIELD**BASIC REQUIREMENTS COMMON TO ALL
LOWER DIVISION**

Speech	12 units
English	12 units
(English 1A-1B, 46A-46B)	
Mathematics (Elementary Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences	12 units
(See page 38.)	
Physical Education	2 units
(Including Phys. Educ. 5 or 15)	
Psychology 1	3 units
Social Sciences	12 units
(Including History 70* and Political Science 51* and one year course. See page 38.)	
Electives	6 units
(Chosen from Art, Music, Foreign Language, Philosophy)	

UPPER DIVISION

Speech	24 units
--------------	----------

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor, chosen from the list of minors on page 40, and must maintain a "C" average in all work taken toward the degree, and in all work taken in the major and minor.

The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to requirements in foreign language.

SPECIFIC REQUIREMENTS FOR DIFFERENTIATED MAJORS**SPEECH AND ENGLISH**

(For other requirements, see basic requirements given above.)

LOWER DIVISION

Speech (1, 2, 3, plus 3 lower division units)	12 units
---	----------

UPPER DIVISION

Speech (155, 156, 165)	9 units	} 24 units
English (112 or 115, 136A or 136B, 162)	9 units	
Speech or English in addition to above	6 units	

* Subject requirement may be satisfied by examination; no unit credit.

RADIO-SPEECH

(For other requirements, see page 80.)

LOWER DIVISION

Speech (1, 2, 3, 17)	12 units
Journalism 20	3 units
Business Administration 2A (or equivalent), 50	2-4 units
Industrial Education 50	3 units
(This course may be applied toward the requirement in natural science for radio majors.)	

UPPER DIVISION

Speech	24 units
Including Speech 118, 120, 121, 122, 123)	
English 112 plus 3 upper division units	6 units

SPEECH AND DRAMATICS

(For other requirements, see page 80.)

LOWER DIVISION

Speech (1, 2, 3, plus 3 lower division units)	12 units
---	----------

UPPER DIVISION

Speech 112, 155, 156, 171, plus 12 upper division units, 6 of which may be approved courses in English)	24 units
---	----------

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Teaching Minors for Candidates for General Secondary Credential</i>	
	<i>Speech</i>	<i>Radio-Speech</i>
Lower		
Division--Speech 1 ---- 3 units	Speech 1----- 3 units	Speech 1----- 3 units
Speech 2 ---- 3 units	Speech 2----- 3 units	Speech 2----- 3 units
Speech 3 ---- 3 units	Speech 3----- 3 units	Speech 17----- 3 units
Electives ---- 3 units	3 units chosen	Speech 18 or 25 2 units
	from: Speech	
	10, 18, 25, 30 3 units	
Upper		
Division--Speech 155 -- 3 units	Speech 155---- 3 units	Speech 118A-B 6 units
Speech 156 -- 3 units	Speech 156---- 3 units	Speech 120---- 3 units
Speech 165 -- 3 units	Speech 165---- 3 units	Speech 121---- 3 units
Electives ---- 6 units		
Total units required-- 27 units	21 units	21 units

Additional requirements for the Junior High School Credential are given in detail on pages 53-55.

	<i>Minors</i>	
	<i>Radio</i>	<i>Speech-Dramatics</i>
Lower Division	Speech 1----- 3 units Speech 2----- 3 units	Speech 1----- 3 units Speech 3----- 3 units
Upper Division	Speech 121---- 3 units Speech 122---- 3 units 12 units	Speech (U.D.) 6 units 12 units

DESCRIPTION OF COURSES

LOWER DIVISION

1. Fundamentals of Speech (fall, spring) 3 units

An introductory course in public speaking and reading aloud, involving the study of voice control, delivery techniques, speech composition, types of readings and speeches, and phonetics.

Three one-hour periods per week.

2. Oral Interpretation of Literature (fall, spring) 3 units

A basic course in voice training and in the art of oral interpretation. Oral interpretation of poetry, short stories, and dramatic scenes from the standpoint of both emotional and intellectual reaction.

Three one-hour periods per week.

Prerequisite: Speech 1.

3. Public Speaking (fall, spring) 3 units

A basic course in the fundamentals of speech planning and delivery. The course aims to develop self-confidence and poise through oral expression and to awaken interest in the events and problems of the modern world.

Three one-hour periods per week.

Prerequisite: Speech 1.

10. Technique of Acting (spring) 3 units

This course embraces the basic principles of Dramatic Art. It teaches the fundamentals of pantomime, impersonation, and oral expression. It is designed for students with little or no stage experience who wish to improve their speaking voices and to develop poise and self-confidence.

Two two-hour periods and one one-hour period per week.

17. Survey of Radio Broadcasting (fall, spring) 3 units

An introductory course to radio involving the history of broadcasting, government regulations; station organization and management; network organizations; methods of production and broadcasting; commercial methods and policies; educational broadcasting and broadcasters; public service responsibilities; and the future of radio.

Three one-hour class periods per week.

18A, B, C, D. Radio Workshop (fall, spring) 1 or 2 units

Students in this course are responsible for the College's radio programs presented over the local radio stations. They write, direct, produce, and enact the programs. Though the emphasis is on learning by doing, the student is encouraged to explore all aspects of radio and become familiar with the best production procedures.

One one-hour period per week and three hours DHR in the broadcast studios.

19. Radio Speech (spring) 3 units

The theory and practice of radio broadcasting as distinguished from platform speaking. Class practice with proven broadcasting materials of all kinds.

Prerequisite: Speech 1 and 2 or the consent of the instructor.

Three one-hour periods per week.

25A, B, C, D. Dramatic Workshop (fall, spring) 1 or 2 units

A laboratory course in acting and in the technical practices of the stage, including construction of sets, stage lighting, theatrical costume and make-up. There are no textbook assignments and no examinations. All the time is spent in the actual work of preparing plays for public performance.

Three two-hour periods per week.

30. Playwriting (fall) 3 units

A course in the critical analysis of dramatic structure and techniques designed for the student interested in dramatic literature, play directing, or the writing of original plays for the stage and radio. The superior contributions of this class will be staged in the "Hilarities," one-act play assemblies, and in the College radio studio.

Prerequisite: English 1A-1B or consent of instructor.

Two two-hour periods per week.

80. Speech Clinic (fall, spring) 1/2 unit

Individual instruction for students having minor disturbances of voice or speech as well as those having more serious disorders. Consent of the instructor must be obtained for enrollment.

Two one-hour periods per week.

UPPER DIVISION

Speech 1, and 2 or 3 or consent of instructor are prerequisite to all upper division courses.

102. Advanced Expression and Interpretation (spring) 3 units

A course in reading aloud in which particular attention will be paid to the specific interests, needs, and abilities of the individual student, which determine his activities in class. Special attention is given to the needs of prospective teachers with respect to reading aloud in the classroom.

Prerequisite: Speech 2.

Three one-hour periods per week.

103. Advanced Public Speaking (fall) 3 units

This course embraces a more detailed study of speech planning, the techniques of presentation, and the forms of address. Extensive practice in extemporaneous speaking.

Prerequisite: Speech 3.

Three one-hour periods per week.

112. Phonetics (fall) 3 units

Principles of phonetics; pronunciation, based on contemporary American usage; phonetic analysis applied to speech improvement.

Three one-hour periods per week.

117. Survey of Radio Broadcasting (fall, spring) 3 units

A course of the same character as Speech 17 intended for students working toward a radio minor in a credential curriculum. A radio research problem will be undertaken by the members of this class.

Three one-hour class periods per week.

118A, B, C, D. Advanced Radio Workshop (fall, spring) 1 unit

A course of the same character as Speech 18 for advanced students.

Prerequisite: Speech 18 or consent of the instructor.

One one-hour period and three hours DHR in the broadcasting studios.

120. Radio Writing (spring) 3 units

Study of the techniques and devices used in writing radio plays, continuity, forms, commercial announcements, special events programs, talks, public service programs, etc. Critical study of scripts. Many of the programs developed by this class will be broadcast from the college studio.

Prerequisite: English 1A-1B or consent of instructor.

Three one-hour periods per week.

121. Radio Production Directing (fall) 3 units

Study of the program director's job in the average radio station, including the planning, organization, and handling of all types of radio programs: special events broadcasts, commercial programs, interviews, dramatic programs, network programs, and types of recorded programs.

Prerequisite: Speech 17 or 117 or consent of instructor.

Three one-hour periods per week.

122. Radio Sales and Commercial Operation (fall) 3 units

Study of the business manager's job in the average radio station; analysis of the costs in running a station, copy analysis and placement according to type, sales methods, analysis of programs in relation to sales possibilities, sales demands and their effect on program types, Federal Trade Commission regulations, national advertising associations, costs of programs (time and talent), making of contracts, analysis of the jobs of the essential personnel of the station, etc.

Prerequisite: Speech 17 and 121 or consent of instructor.

Three one-hour periods per week.

123. Advanced Radio Production (spring) 3-8 units

A study of the many aspects of the radio profession through "on the job" participation in the studios of stations KIEM and KHUM in Eureka and at the Intercollegiate Broadcasting System studios of the college. This course will be offered only to superior students who have completed 17 or 117, 18, 118, 120, 121, and 122.

***124. Music in Radio Broadcasting (spring) 3 units**

A study of the various uses of music in the radio program involving the building and production of musical programs; composing and conducting; writing musical continuity; arranging music for dramatic radio; and inspection of the functional importance of music and its practical use in current programs.

Prerequisite: Speech 17 or 117, 18 or 118, 121.

Three one-hour periods per week.

125A, B, C, D. Advanced Dramatic Workshop (fall, spring) 1 or 2 units

A course of the same character as Speech 25 for advanced students.

Prerequisite: Speech 1, 2 or 3 or consent of the instructor.

Three two-hour periods per week.

130. Advanced Playwriting (fall) 3 units

A continuation of Speech 30, with opportunity for each student to concentrate his activities in any one of the following fields of playwriting: one-act plays, radio plays, skits, blackouts, three-act plays, for possible production by the college drama department.

Prerequisite: English 1A-1B or consent of instructor.

Two two-hour periods per week.

155. Play Production (fall) 3 units

A lecture and laboratory course designed primarily for teachers and students who intend to engage in the work of directing plays. Attention is given to the choice of material for amateur theatricals from a wide range of plays by representative dramatists, directing techniques, make-up, costuming, publicity, and advertising, ticket sales, house management, etc. This course includes the casting, directing, and producing of a one-act play as a final project for each student.

Two two-hour and one one-hour periods per week.

156. Play Production (spring) 3 units

A lecture and laboratory course designed primarily for teachers and students who intend to engage in the work of staging play productions. This advanced course includes stage designing, construction, painting, lighting, sound effects, furniture, and furnishings.

Three one-hour and one two-hour periods per week.

***165. Speech and Drama in the Elementary and Junior High School (fall) 3 units**

A course designed for the teacher who is responsible for directing plays, who is interested in using dramatic activities or who seeks to improve classroom procedure by the use of discussion techniques. Conducted in seminar style, the class is a workshop for the consideration of such problems as the following: conducting round tables, panels, symposia, and forums; coaching debaters; choosing school plays; using speech and dramatics in the classroom; planning parties and social-recreational activities; planning speech activities in courses of study; selecting textbooks.

Three one-hour periods per week.

171. Survey of the Drama (spring) 3 units

A course in the historical development of the drama, covering representative plays from the Greeks to those of present-day playwrights—Continent, England, and America.

* Not given 1947-48.

180. Speech Correction (spring) 3 units

The classification, diagnosis, and treatment of speech defects. Theory supplemented by demonstrations and supervised practical work with children and adults in the speech clinics. Intended particularly for training prospective teachers to recognize and correct speech defects of elementary school children.

Three one-hour class periods and one two-hour laboratory period per week.

199. Directed Study in Speech Problems (fall, spring) 1-3 units

Student assists in speech training. Consent of instructor required for enrollment.

Hours to be arranged with the instructor.

257. Stage Design, Construction, Painting and Lighting 3 units

The purpose of this course is to train teachers in the technical aspects of play production. Each student will be given intensive training in planning, building, painting, and lighting stage sets for assemblies and dramatic productions.

Two one-hour lectures and two two-hour laboratory periods per week.

272. Modern American Drama 3 units

A course in the American theater and its staging, acting, and drama from the Civil War to the present day. Primary emphasis in the course is placed upon the theater and drama from 1918 to the present. The course is conducted through lectures, assigned reading, discussions, and assigned reports.

Three one-hour periods per week.

281. Advanced Speech Correction 3 units

Emphasis is placed upon the more serious types of speech disorders. Special attention is given to making case studies and speech surveys as well as to methods of testing and diagnosis. Supervised clinical practice.

Three one-hour class periods and one two-hour laboratory period per week.

THE DIVISION OF HEALTH AND PHYSICAL EDUCATION

OBJECTIVES

The Division of Health and Physical Education has five separate and distinct functions:

1. To give all students an opportunity to acquire skill in a variety of wholesome and recreational physical activities which shall aid in maintaining health and providing development of self-expression in individual and group activities.

2. To provide curricula leading to:

a. General Secondary Credential with major in Physical Education, enabling the student to teach in the secondary schools of the State. This program involves a year of graduate study.

b. The Special Secondary Credential in Physical Education, enabling the student to teach Physical Education in the elementary and secondary schools of the State.

3. To provide opportunity for those interested in physical education activities to acquire techniques and principles which will enable them to serve as volunteer leaders in community groups, to prepare the prospective teacher who may find himself assigned to this field in conjunction with his specialized teaching area, and to develop an appreciation on the part of all future teachers of the vital importance of health and hygiene in the total school program.

To realize these goals, a junior high school major and a minor are offered in each subject field (i.e., physical education, and health and hygiene).

4. To prepare the general elementary teacher to handle intelligently the physical education program in the elementary schools.

5. To provide curricula leading to the A.B. Degree for graduate nurses and pre-nursing students. Also, to provide a one-year course for pre-nursing candidates who wish to continue their work elsewhere.

PHYSICAL EDUCATION

REQUIREMENT IN PHYSICAL EDUCATION ACTIVITIES

Students who are enrolled in the College for 12 or more units are required to take an activity course twice weekly during the first four semesters of attendance. Freshmen men are required to take P.E. 5, and freshmen women P.E. 15. During other semesters, they may select any activity courses offered.

Persons 21 years of age or older may be exempt from this requirement with consent of the Division.

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN PHYSICAL EDUCATION

LOWER DIVISION

Physical Education -----	12 units
(Men : Phys. Educ. 1A-B-C-D ; Women : Phys. Educ. 2A-B-C-D ; Health and Hygiene 1, 55)	
English 1A-1B -----	6 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Science -----	12 units
(Including Biology 10A-10B or Zoology 1A, Anatomy 66. Recommended : Chemistry 1A ; see page 87)	
Orientation II -----	1 unit

Psychology 1	3 units
Social Sciences	12 units
(Including History 70 * and Political Science 51 * and one year course; see page 38)	

Speech 1	3 units
Electives	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, English 46A-46B or 74A-74B)	

Completion of lower division requirements for a secondary minor. (See page 40.)

UPPER DIVISION

Physical Education	24-26 units
(Phys. Educ. 151, 152, 175, 176, 191, 198; H.H. 160, 195. Men: Phys. Educ. 192A-192B plus 1 unit elective U.D. Phys. Educ.; women: Phys. Educ. 120, 193A-193B)	

Education	16 units
(Education 110, 111, 115, 124, 137 or 148, 153, 195PE, 170)	

Recommended: Physiology 101	(5 units)
-----------------------------------	-----------

Completion of upper division requirements for a secondary minor.

OTHER REQUIREMENTS

Electives to bring total to 120 units, thus completing requirements for the A.B. Degree.

For admission to the graduate year, the student must maintain the following scholarship standards:

Index on all work taken in the upper division	1.50
Index on all work taken in the major field	1.50
Index on all work taken in Education courses	1.00
Index on all work taken in the minor field	1.00

The following minor in natural sciences is recommended:

Lower Division:

Biology 10A-10B or Zoology 1A	4-6 units
Anatomy 66	3 units
Chemistry 1A	5 units

Upper Division:

Physiology 101	5 units
Zoology 160 or Biology 114	3 units

Total units required	20-22 units
----------------------------	-------------

GRADUATE YEAR

Physical Education	5-6 units
(Chosen from 201, 202, 203, 204)	

Education	10-12 units
(Education 270, 340, and 4 units from 212, 265, and 299)	

Major, minor, or electives	6-8 units
An index of 1.75 is required on all work taken in the graduate year.	

A minimum of 24 units in the graduate year is required. Part of this work may be taken in approved upper division courses.

REQUIREMENTS FOR THE A.B. DEGREE WITH A SPECIAL SECONDARY CREDENTIAL IN PHYSICAL EDUCATION

LOWER DIVISION

The subject requirements are the same as prescribed for the General Secondary Credential. See page 86.

UPPER DIVISION

Physical Education	25-28 units
(Phys. Educ. 151, 152, 175, 176, 190, 191, 198; HH 160, 195; Men: Phys. Educ. 192A-192B; Women: Phys. Educ. 120, 193A-193B)	

* Subject requirement may be satisfied by examination; no unit credit.

Education -----	20 units
(Education 110, 111, 115, 124, 137 or 148, 153, 170, 195PE, 322 and 342)	
Physiology 101 strongly recommended -----	(5) units

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

The candidate must complete a minor, chosen from the list of minors on page 40, and must maintain a "C" average in all work taken, in the major and minor fields, and in all Education courses taken.

The following minor in natural sciences is recommended:

Lower Division :

Chemistry 1A or

Zoology 1A ----- 4 or 5 units

Anatomy 66 ----- 3 units

Upper Division :

Physiology 101 ----- 5 units

Biology 114 or

Zoology 160 ----- 3 units

Total units required ----- 15 - 16 units

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	Lower Division
H.H. 1 ----- 2 units	H.H. 1 ----- 2 units	H.H. 1 ----- 2 units
H.H. 55 ----- 2 units	H.H. 55 ----- 2 units	H.H. 55 ----- 2 units
Men	Men	Men
P.E. 1A-B-C-D 8 units	P.E. 9A ----- 1 unit	P.E. 1A-B-C-D 8 units
	P.E. 10A ----- 1 unit	
Women	Women	Women
P.E. 2A-B-C-D 8 units	P.E. 16A ----- $\frac{1}{2}$ unit	P.E. 2A-B-C-D 8 units
	P.E. 17A ----- $\frac{1}{2}$ unit	
	P.E. 18A ----- $\frac{1}{2}$ unit	
Upper Division	Upper Division	Upper Division
H.H. 195 ----- 3 units	H.H. 195 ----- 3 units	A minimum of ----- 9 units
P.E. 175 ----- 3 units	P.E. 190 ----- 2 units	(Chosen with the
P.E. 176 ----- 2 units	P.E. 191 ----- 1 unit	approval of Divi-
P.E. 190 ----- 2 units		sional Chr.)
P.E. 191 ----- 1 unit		
Men	Men	
P.E. 192AB --- 4 units	P.E. 192AB -- 4 units	
Women	Women	
P.E. 120 ----- 3 units	P.E. 193AB -- 4 units	
P.E. 193AB --- 4 units		
Total units required :		
Men ----- 27 units	Men ----- 16 units	Men ----- 21 units
Women ----- 30 units	Women ----- 15 $\frac{1}{2}$ units	Women ----- 21 units

Additional requirements for the Junior High School Credential are given in detail on pages 53-55.

DESCRIPTION OF COURSES

Courses for Men

LOWER DIVISION

1A-B-C-D. Physical Education Activities 2 units each course

Required of all men who elect physical education as a major and to be taken in the lower division. The object of the courses is to develop skill in and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Along with learning these skills, the student will learn sound technics in teaching.

5. Freshman Physical Activities (fall, spring) 1 unit

Fundamentals of team and individual sports, together with some achievement tests.

Required of all freshmen and limited to freshmen.

Two one-hour periods per week.

6A, B. Fall Sports (fall) 1 unit

Touch football, volleyball, and handball.

Two one-hour periods per week.

7A, B. Spring Sports (spring) 1 unit

Basketball, track, and softball.

Two one-hour periods per week.

8A, B. Individual Sports (fall, spring) 1 unit

Boxing, fencing, tumbling, wrestling (choice of one or more).

Two one-hour periods per week.

9A, B, C, D. Intercollegiate Football (fall) 1 unit

Daily afternoon practice.

10A, B, C, D. Intercollegiate Basketball (spring) 1 unit

Daily afternoon practice.

11A, B, C, D. Baseball (spring) 1 unit

Intercollegiate competition when it can be arranged; games with local teams.

Daily afternoon practice.

12A, B, C, D. Track (spring) 1 unit

Intercollegiate competition when it can be arranged; meets with local organizations.

Daily afternoon practice.

88. Scout Leadership 2 units

History of boys' work; the basic principles and conceptions of the movement; the organization of such a program in a community; requirements for adult leadership; summer camps, etc. This course will include practice in laboratory field work.

Two one-hour periods per week.

UPPER DIVISION

192A. Theory of Athletics (fall) 2 units

Football, soccer, speedball, and basketball.

Prerequisite: Upper division status only.

Two one-hour periods per week.

192B. Theory of Athletics (spring) 2 units

Baseball, track and field, and tennis.

Prerequisite: Upper division status only.

Two one-hour periods per week.

Courses for Women
LOWER DIVISION

2A, B, C, D. Physical Education Activities **2 units each course**

Required of all women who elect physical education as a major and to be taken in the lower division. The object of the courses is to develop skill in and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Along with learning these skills, the student will learn sound technics in teaching.

15. Freshman Physical Activities (fall) **$\frac{1}{2}$ unit**

A course to give the entering student an opportunity to participate in activities which demand and develop fundamental skills, such as running, throwing, catching, and relaxing, in at least one team game, and in activities which help correct the more prevalent deviations from normal body mechanics.

Required of all freshmen women and limited to freshmen.

Two one-hour periods per week.

16A, B, C. Fall Sports (fall) **$\frac{1}{2}$ unit**

Field hockey and volleyball.

Two one-hour periods per week.

17A, B, C, D. Spring Sports (spring) **$\frac{1}{2}$ unit**

Basketball and softball.

Two one-hour periods per week.

18A. Beginning Dance (fall) **$\frac{1}{2}$ unit**

Introduction to modern dance technique.

Two one-hour periods per week.

18B. Intermediate Dance **$\frac{1}{2}$ unit**

Two one-hour periods per week.

18C. Advanced Dance **$\frac{1}{2}$ unit**

Two one-hour periods per week.

UPPER DIVISION

120. Introduction to the Dance **3 units**

Development of the dance from primitive forms to the present; knowledge and appreciation of dance technique and composition with application toward performance.
1 lecture, 1 laboratory and 3 technique classes per week.

193A. Methods of Teaching Team Sports **2 units**

Field hockey, soccer, softball, volleyball, speedball, basketball.

Prerequisite: Previous participation.

193B. Methods of Teaching Individual Sports **2 units**

Tennis, archery, badminton, recreational sports.

Prerequisite: Previous participation.

Courses for Men and Women
LOWER DIVISION

25A, B, C, D. Individual Exercise Program (fall, spring) **$\frac{1}{2}$ unit**

A program of special exercise and activity suited to the individual student.

Two one-hour periods per week.

27A. Elementary Tennis (fall, spring) **$\frac{1}{2}$ unit**

Two one-hour periods per week.

27B. Intermediate Tennis (fall, spring) **$\frac{1}{2}$ unit**

Two one-hour periods per week.

27C. Advanced Tennis (fall, spring) **$\frac{1}{2}$ unit**

Two one-hour periods per week.

- 28A. Elementary Archery** (fall, spring) ½ unit
Two one-hour periods per week.
- 28B. Advanced Archery** (fall, spring) ½ unit
Two one-hour periods per week.
- 29A. Badminton** (fall, spring) ½ unit
Badminton, deck tennis, paddle tennis, table tennis.
Two one-hour periods per week.
- 29B. Advanced Badminton** (fall, spring) ½ unit
Two one-hour periods per week.
- 30A. Elementary Golf** (fall, spring) ½ unit
Two one-hour periods per week.
- 30B. Advanced Golf** (fall, spring) ½ unit
One two-hour period per week.
- 31. Ballroom Dancing** (spring) ½ unit
Basic dance techniques; fox trot, waltz, tango, and current routines. Dance etiquette.
Two one-hour periods per week.
- 33. Folk Dancing** (fall, spring) ½ unit
Two one-hour periods per week.
- 77. Playground Leadership** (fall) 4 units
Thorough theoretical background and some practical laboratory experience in playground work.
Three one-hour lectures and one two-hour laboratory period per week.

UPPER DIVISION

Upper division status is the only prerequisite to the upper division Physical Education courses except Physical Education 152.

- †**151. Applied Kinesiology** (fall) 3 units
Study of the anatomy of muscles, bones, joints and of the nervous system as a basis for understanding bodily movement in exercise and sports.
Three one-hour periods per week.
- †**152. Methods in Corrective Physical Education** (spring) 2 units
The principles underlying good body mechanics; the causes, correction, and prevention of postural defects; methods of relaxation; the place of Corrective Physical Education in the school program; equipment facilities and procedure; fundamentals and practice of massage. Much of the work is practical.
Prerequisite: Physical Education 151.
Two one-hour periods per week.
- †**175. History and Principles of Physical Education** (fall) 3 units
The evaluating of the history of physical education, the weighing of current problems in the field, the setting up of a code of ethics for professional workers, and the formulating of aims and objectives.
Three one-hour periods per week.
- †**176. Principles of Community Recreation** (spring) 2 units
A consideration of the principles involved in developing an ideal program of recreation. Some practical experience in organizing college recreational activities is required.
Two one-hour periods per week.
- 190. Practicum in Physical Education** (fall, spring) 2 units
The organization of the physical education program in grades one through eight.
One class, two activity, and one observation hours per week.

† Given if sufficient demand.

- 191. Methods in Singing Games and Folk Dances** (fall, spring) **1 unit**
 Participation in and conduct of rhythms suitable for children of the elementary school and junior high school.
 Two one-hour periods per week.
- 198. Organization and Administration of Secondary School Physical Education** (fall, spring) **2 units**
- 201. Problems in Intramural Sports** **2 units**
 A critical analysis of intramural sports programs with a view to their justification from the standpoint of objectives, age level and contribution to the general welfare of students participating. Problems of policy and administration on the elementary, secondary, and college levels.
- 202. Therapeutic Exercise** **3 units**
 A presentation of the theory and practice of muscle reeducation based upon principles of active and passive exercise. Range of joint motion, manual muscle testing and forced motion are included.
- 203. Physiotherapy** **3 units**
 A study of the active and passive phases of physiotherapy. This includes exercises, assistive and active, uses of massage, heat, light, and hydrotherapy.
- 204. Campcraft and Leadership** **3 units**
 Organization of summer camps; various types will be studied including those of national organizations, private camps, and informal groups. A study of the qualifications, duties, and relationships of the counselor to the camp.

HEALTH AND HYGIENE

REQUIREMENTS FOR A.B. DEGREE FOR GRADUATE NURSES

Graduate nurses from accredited nursing schools with three years of training may be granted the Bachelor of Arts Degree upon the completion of an approved program of study. This program includes the following courses:

LOWER DIVISION

English 1A-1B	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences	12 units
(To be chosen in consultation with student's adviser. Chemistry or Physics taken in the senior year of high school for which grades of A or B were received may count in fulfillment of three units of this requirement.)	
Physical Education Activities	2 units
Psychology 1	3 units
Social Sciences	12 units
(Including History 70 * and Political Science 51 * and one year-course. See page 38.)	
Electives	6 units
(Chosen from Art, Foreign Language, Music, Philosophy, Speech, or English 46A-46B, or 74A-74B.)	
Electives to bring total of units up to 60.	

In this curriculum, the major requirements are satisfied by the work in nursing, for which a total of 60 units is allowed. However, the candidate must complete a minor in one of the fields listed on page 40 and must maintain a "C" average in all college work.

* Subject requirement may be satisfied by examination; no unit credit.

REQUIREMENTS FOR THE A.B. DEGREE FOR PRE-NURSING STUDENTS

Students who complete an approved two-year curriculum in the State College followed by graduation from an accredited nursing school based upon three years of training, may receive the A.B. Degree from the College. The essential requirements for a degree established by the State Department of Education must be fulfilled. The major requirement is presumed to be satisfied by the work in nursing, a total of 60 units being allowed for the three-year nursing course. Adjustments in the program may be made to suit the curricular requirements of the hospital to which the student expects to transfer.

LOWER DIVISION

English 1A-1B -----	6 units
Home Economics 20 -----	2 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Sciences -----	21 units
(Chemistry 1A, Anatomy 66, Bacteriology 1, Physiology 101, and Zoology 160 or Biology 114)	
Physical Education -----	2 units
(Including Phys. Educ. 15)	
Psychology 1 -----	3 units
Social Sciences -----	12 units
(Including History 70* and Political Science 51* and one year course. See page 38.)	
Electives -----	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B or 74A-74B)	
Electives to total 60 units.	

University of California School of Nursing

Students who expect to enter hospitals maintained by the University of California or Stanford University must conform to the entrance requirements for those institutions, and plan their college programs to meet the undergraduate patterns prescribed. In general, the courses outlined below fulfill the requirements for transfer to the University of California School of Nursing.

Subject A

Elementary Algebra and Plane Geometry (if not taken in high school)	
Economics 1A-1B -----	6 units
English 1A-1B or Speech 1, and 2 or 3 -----	6 units
Foreign Language ¹ -----	16 units
Natural Science -----	18 units
(Chemistry 1A, Bacteriology 1, Anatomy 66, Physiology 1)	
Philosophy 6A-6B -----	6 units
Physical Education -----	2 units
Psychology 1-2 -----	6 units
Political Science 51 and History 70 -----	4 units

Eventual candidates for a Public Health credential should add to this list Chemistry 1B, 5, and 8.

One-Year Curriculum

The one-year pre-nursing program has been outlined to meet the needs of students who wish to take their professional training in one of the nursing schools which require one year of college work as prerequisite to admission.

Recommended Sequence

	Sem. 1	Sem. 2
Anatomy 66 -----	3	—
Bacteriology 1 -----	5	—
Chemistry 2 -----	3	—
English 1A -----	—	3
Physiology 1 -----	—	5
Psychology 1 -----	—	3
Electives -----	4	3
	15½	16½

* Subject requirement may be satisfied by examination; no unit credit.

¹ See A.A. Degree requirements of University of California, Page 41.

MAJOR AND MINOR REQUIREMENTS

For students enrolled in the credential curricula, either a major or a minor is available in the field of Health and Hygiene. The minor may also be selected by students majoring in other departments of the College. The requirements are as follows:

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	Lower Division
H.H. 1----- 2 units	H.H. 1----- 2 units	H.H. 1----- 2 units
H.H. 55----- 2 units	H.H. 55----- 2 units	H.H. 55----- 2 units
H.Ec. 20----- 2 units	H.Ec. 20----- 2 units	Anatomy 66----- 3 units
Physiol. 1----- 5 units		
Upper Division	Upper Division	Upper Division
Ed. 111----- 2 units		
H.Ec. 122----- 2 units		
P.E. 151----- 3 units		
P.E. 152----- 2 units	Ed. 111----- 2 units	H.H. 160----- 3 units
H.H. 160----- 3 units	H.H. 160----- 3 units	H.H. 195----- 3 units
H.H. 195----- 3 units	H.H. 195----- 3 units	Physiol. 101----- 5 units
Total units required ----- 26 units	Total units required ----- 14 units	Total units required ----- 18 units

Additional requirements for the Junior High School Credential are given in detail on pages 53-55.

A liberal arts group major which includes Health and Hygiene may be arranged in consultation with the student's adviser and the Registrar's office. See page 129.

DESCRIPTION OF COURSES**LOWER DIVISION****1. Personal Hygiene (fall, spring) 2 units**

Informational hygiene with consideration of the physical, mental and social well-being of the individual. Deals with the principles of healthful living and assists students to make a conscious adjustment to their environment.

***50. Home Nursing (fall, spring) 2 units**

Students completing this course and passing the examination will be granted the Red Cross Home Nursing Certificate.

Two one-hour periods per week.

55. First Aid (fall, spring) 2 units

This course conforms to the standards of the American Red Cross. Lectures, practical demonstrations, and practice periods. Those passing the written tests and practical demonstrations will receive the Standard and Advanced Red Cross First Aid Certificates.

Two one-hour periods per week.

UPPER DIVISION**160. Public Health 3 units**

A survey of the field of public health, including disease prevention and control; the social, medical, and economic aspects of sickness and disability, with special emphasis on administrative programs of federal, state, and local health agencies.

Three one-hour periods per week.

* Not given 1947-48.

195. Methods in Safety Instruction and Health Education

3 units

Course designed to meet state requirements for elementary and secondary teachers. Basic survey of materials, curriculum construction and presentation.

Related Courses in Other Departments

Anatomy 66 (Human Anatomy)	3 units
Bacteriology 1 (General Bacteriology)	5 units
Biology 103 (Micro-Technique)	2 or 3 units
Education 111 (Child Growth and Development)	2 units
Home Economics 20 (Nutrition and Foods)	2 units
Home Economics 122 (Nutrition Work with Children)	2 units
Physical Education 151 (Applied Kinesiology)	3 units
Physical Education 152 (Methods in Corrective Physical Education)	2 units
Physiology 1 (Elementary Physiology)	5 units

THE DIVISION OF LANGUAGE AND LITERATURE

English Language and
Literature

Foreign Languages and
Literature

OBJECTIVES

The objectives of the Division of Language and Literature are:

1. To offer courses for all students that will enrich cultural and social backgrounds, provide improved use of communication skills, enrich personalities, and stimulate active participation in world citizenship through a study of the language, literature, and life of the people of this and other lands.
2. To offer courses that will aid in developing a general background in English for those training to become teachers in the elementary and secondary schools of the State.
3. To provide curricula leading to :
 - a. General Secondary Credential with major in English-Speech, enabling the student to teach in the secondary schools of the State. This program involves a year of graduate study.
 - b. Graduate study for advanced degrees in the field of English.
 - c. A cultural education with emphasis upon English.
4. To enable the student to read the French or Spanish languages for recreative, for cultural, and for vocational purposes.
5. To enable the student to pronounce, to understand, and to use the foreign language orally within the limits of class material.
6. To give the student knowledge of the foreign country and its people.
7. To integrate foreign language study with other fields, such as English, Social Science, Music, Art, Drama, etc.
8. To provide courses for :
 - a. A Junior High School major in English.
 - b. Minors in English, Journalism, French, and Spanish.

ENGLISH

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN ENGLISH-SPEECH

LOWER DIVISION

English	12 units
(English 1A-1B, 46A-46B)	
Speech	6 units
(Speech 1 and 2 or 3)	
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Sciences	12 units
(See page 38)	
Orientation II	1 unit
Physical Education (including Phys. Educ. 5 or 15)	2 units
Psychology 1	3 units
Social Sciences	12 units
(Including History 70 * and Political Science 51 * and one year course. See page 38)	

* Subject requirement may be satisfied by examination; no unit credit.

Electives -----	6 units
(Chosen from Art 1-2, Music 3-4, Foreign Language or Philosophy)	
Completion of lower division requirements for a secondary minor.	
(See list on page 40)	

UPPER DIVISION

English -----	18 units
(English 136A or 136B, 162, 115, 171, and 6 units from English 154, 155, and 157)	
Speech -----	6 units
(Speech 155, 156)	
Education -----	16 units
(Education 110, 111, 115, 124, 137 or 148, 153, 195E, 170 ; see recommended sequence on page 57)	
Completion of upper division requirements for a secondary minor.	
Electives to bring total to 120 units, thus completing requirements for the A.B. Degree.	

For admission to the graduate year, the student must maintain the following scholarship standards:

Index on all work taken in the upper division-----	1.50
Index on all work taken in the major field-----	1.50
Index on all work taken in Education courses-----	1.00
Index on all work taken in minor field-----	1.00

GRADUATE YEAR

English -----	6 units
(English 288 and 262)	
Education -----	10-12 units
(Education 270, 340, and 4 units from 212, 265, and 299)	
Major, minor, or electives-----	6- 8 units
An index of 1.75 is required on all work taken in the graduate year.	
A minimum of 24 units in the graduate year is required. Part of this work may be taken in approved upper division courses.	

REQUIREMENTS FOR THE A.B. DEGREE IN ENGLISH

(LIBERAL ARTS)

LOWER DIVISION

English -----	12 units
(English 1A-1B, 46A-46B)	
Foreign Languages ¹ -----	10 units
(In not more than two languages. Each year of high school foreign language will be counted in satisfaction of three units of this requirement. Part of requirement may be satisfied by upper division courses)	
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Science ¹ -----	12 units
(See page 38)	
Physical Education -----	2 units
(Including Phys. Educ. 5 or 15)	
Psychology 1 -----	3 units
Social Sciences -----	12 units
(Including History 70 * and Political Science 51 * and at least one year course. See page 38)	
Electives -----	6 units
(Chosen from Art, Music, Speech, Philosophy)	

UPPER DIVISION

English -----	24 units
(English 160, 162, and 18 upper division units)	

* Subject requirement may be satisfied by examination; no unit credit.

¹ If the student expects to take graduate work at the University of California, he should consult the requirements in Foreign Language and Natural Sciences as given on page 41.

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units must be completed.

The candidate must complete a minor chosen from the list of minors on page 40, and must maintain a "C" average in all work taken toward the degree and in all work taken in the major and minor fields.

REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN SPEECH AND ENGLISH

(This curriculum is outlined in detail on page 79)

REQUIREMENTS FOR

<i>Junior High School</i>			<i>Minor</i>		
<i>Major</i>					
Lower Division	Eng. 1A-1B -----	6 units	Eng. 1A-1B -----	6 units	
	Eng. 46A-46B -----	6 units	Recommended:		
			Eng. 46A-46B.		
Upper Division	12 units U. D. English.		6 units U. D. English.		
	Recommended:		Recommended:		
	Eng. 115 -----	3 units	Eng. 115 -----	3 units	
	Eng. 136A or 136B -----	3 units	Eng. 136A or 136B -----	3 units	
	Eng. 162 -----	3 units			
	One of the later				
	period courses ---	3 units			
Total units required	-----	24 units			12 units

Additional requirements for the Junior High School Credential are given in detail on pages 53-55.

<i>Teaching Minor for Candidates for General Secondary Credential</i>			<i>Minor in Journalism</i>		
Lower Division	Eng. 1A-1B -----	6 units	Journalism 20 -----	3 units	
	Eng. 46A-46B -----	6 units			
Upper Division	Eng. 136A or 136B -----	3 units	Journalism 120 -----	3 units	
	Eng. 162 -----	3 units	Journalism 122 -----	3 units	
	3 units chosen from		Journalism 124 -----	3 units	
	Eng. 154, 155, 157 -----	3 units	Journalism 126 -----	3 units	
Total units required	-----	21 units			15 units

DESCRIPTION OF COURSES

LOWER DIVISION

Subject A. English Composition (fall, spring) **3 units**

A study of the fundamentals of English grammar, usage, punctuation, and mechanics, with some practice in writing. Required of those who fail the test in "Subject A." Not applicable toward degree requirement in English.

Three one-hour periods per week.

1A. First-year Reading and Composition (fall, spring) **3 units**

Emphasis on expository writing, with supplementary reading.

Prerequisite: The passing of the Subject A test, or a passing grade in the Subject A course.

Three one-hour periods per week.

- 1B. First-year Reading and Composition** **3 units**
 An introduction to the study of literature with further training in writing.
 Prerequisite: English 1A.
- 5. Creative Writing** (See Eng. 105) **3 units**
- 8. Playwriting** (fall) **3 units**
 See Speech 30.
- 46A. Survey of English Literature** (fall) **3 units**
 The beginning of English literature and the main aspect of its development down to the Restoration (1660).
 Prerequisite: English 1B.
 Three one-hour periods per week.
- 46B. Survey of English Literature** (spring) **3 units**
 The leading movements in the development of English literature from the Restoration (1660).
 Three one-hour periods per week.
- 74A. Masterpieces of World Literature** **3 units**
 Begins with Homer; goes through the Renaissance.
 Three one-hour periods per week.
- 74B. Masterpieces of World Literature** **3 units**
 From the Renaissance.
 74A is not prerequisite to 74B.
 Three one-hour periods per week.

UPPER DIVISION

English 1A-1B is prerequisite to all upper division courses in English.

- 105. Creative Writing** (fall, spring) **3 units**
 Course emphasizes developmental writing and aims toward effective, purposeful expression in various literary forms.
 Three one-hour periods per week.
- 108. Advanced Playwriting** (See Speech 130) **3 units**
 Suggested as an elective; not a part of an English major or minor.
- 112. Phonetics** (fall) **3 units**
 See Speech 112.
- *115. The English Language** **3 units**
 A study of tendencies that have changed and are changing the language; designed to give some basis for deciding questions of grammar, usage, and pronunciation.
 Three one-hour periods per week.
- 136A. American Literature** **3 units**
 A study of American literature from Colonial times to the middle of the nineteenth century.
 Three one-hour periods per week.
- 136B. American Literature** **3 units**
 American literature from the middle of the nineteenth century to the present. A study and appraisal of authors and their works contributing to the American scene.
- *142A. The Novel** **3 units**
 The English novel from Defoe through Scott. Students will read and study the novel, its origin, its development as a literary form.
 Three one-hour periods per week.

* Not given 1947-48.

- *142B. The Novel (fall) 3 units**
 The English novel from Dickens to contemporary writers. This is a continuation of course 142A, though 142A is not a prerequisite to 142B.
 Three one-hour periods per week.
- *153. The Age of Elizabeth 3 units**
 Prose and poetry, exclusive of the drama.
 Three one-hour periods per week.
- *154. The Age of Swift and Pope (fall) 3 units**
 The neo-classicism inherited from the Restoration and France. The expression of the Age of Reason through the new democratic prose and the controlled poetry of the closed couplet. How the literature of this time expressed many of the ideas which later entered American democratic thought.
 Three one-hour periods per week.
- *155. The Romantic Period (spring) 3 units**
 Studies in the chief writers of the romantic movement. How these men synthesized their native heritage with the new ideas from France and Germany. The effects of their theory and practice upon English and American literature.
- 157. The Victorian Period (fall) 3 units**
 Victorian sensibility, its relation to romanticism and the theory of associationism. The impact of the industrial revolution upon literature. The resulting poetry and prose. The rise of naturalism and other literary realisms. The effects of mechanistic science: determinism and pessimism. Victorian influences upon American literature.
 Three one-hour periods per week.
- *160. Chaucer (fall) 3 units**
- 162. Shakespeare (spring) 3 units**
- 171. Survey of the Drama (See Speech 171) 3 units**
- 178. Children's Literature 3 units**
 A survey course intended to give an understanding and appreciation of the best literature for children of all ages. Books by notable contemporary authors and artists are read and discussed as well as traditional and classical literature. Attention is given to reading guidance and the stimulation of wider use of books for study and recreation. Required for candidates for the Kindergarten-Primary and the General Elementary Credentials. Not applicable toward an English major or minor.
 Three one-hour periods per week.
- 184. Twentieth Century Literature (spring) 3 units**
 Influences at home and abroad which have formed the views of our leading writers. Discussion of some of their best books. How modern literature reflects and expresses its age.
 Three one-hour periods per week.
- 262. Shakespeare 3 units**
 An introduction to the bibliography; history of the text; use of sources by Shakespeare; methods of critical study.
 Prerequisite: Graduate standing and English 162.
- 288. Principles and Practice of Literary Criticism 3 units**
 The principles and practice of literary criticism from Plato and Aristotle to the present. The aim will be to use the heritage of the past criticism for the development of the student's own powers of evaluation, and for the understanding of the materials and techniques of critical judgment and aesthetic response which the prospective teacher may need to foster literary appreciation in his pupils.

* Not given 1947-48.

JOURNALISM

Note: Ability to type is necessary in all journalism courses.
English 1A-1B is prerequisite to all courses in journalism.

LOWER DIVISION**20. Newswriting****3 units**

A study of what constitutes constructive news, of the sources of news, and of the type of writing used in news stories.

Three one-hour periods per week.

UPPER DIVISION**120. Reporting****3 units**

The writing of news stories for the college paper and for the college news bureau.

Prerequisite: Journalism 20.

Three one-hour periods per week.

122. Copyreading*3 units**

The methods of editing newspaper copy and the writing of headlines.

Prerequisite: Journalism 20.

Three one-hour periods per week.

124. Feature Writing*3 units**

A study of the various types of feature articles and the writing of features by the student.

Prerequisite: Journalism 20.

Three one-hour periods per week.

126. Editorial Writing*3 units**

Discussion of current news and the writing of editorials on appropriate items.

Prerequisite: Journalism 20.

Three one-hour periods per week.

MODERN LANGUAGES**MINOR REQUIREMENTS**

	<i>Minor in French</i>	<i>Minor in Spanish</i>
Lower Division	French 1A-1B _____ 6 units (Two years of high school French may be substituted for 1A-1B)	Spanish 1A-1B _____ 6 units (Two years of high school Spanish may be substituted for 1A-1B)
	French 2A _____ 3 units	Spanish 2A _____ 3 units
	French 2B _____ 3 units	Spanish 2B _____ 3 units
	French 8A _____ 1 unit	
Upper Division	French 105A-105B ____ 6 units	Spanish 105A-105B ____ 6 units
Total units required	13-19 units	12-18 units

DESCRIPTION OF COURSES**FRENCH****LOWER DIVISION****1A. Elementary French (fall)****3 units**

Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.

Three one-hour periods per week.

1B. Elementary French (spring)**3 units**

Continuation of French 1A.

Prerequisite: French 1A or one year of high school French.

Three one-hour periods per week.

* Not given 1947-48.

- 2A. Intermediate French (fall) 3 units**
 Reading of modern short stories, novels, plays, and works descriptive of French civilization. Review of essentials of grammar, conversation.
 Prerequisite: French 1B or two years of high school French.
 Three one-hour periods per week.
- 2B. Intermediate French (spring) 3 units**
 Continuation of French 2A.
 Prerequisite: French 2A or equivalent.
 Three one-hour periods per week.
- 5A-5B. Advanced Reading (year) 3-3 units**
 Introduction to French literature.
 Prerequisite: French 2B or equivalent.
 Three one-hour periods per week.
- 8A. French Pronunciation (spring) 1 unit**
 Prerequisite: French 1A or one year of high school French.
 One one-hour period per week.

UPPER DIVISION

- 105A-105B. Survey of French Literature (year) 3-3 units**
 A brief survey of French literature from its beginning to the present time.
 Extensive reading of works of representative authors of all periods.
 Prerequisite: French 2B or four years of high school French.
 Three one-hour periods per week.

Spanish

- 1A. Elementary Spanish (fall) 3 units**
 Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.
 Three one-hour periods per week.
- 1B. Elementary Spanish (spring) 3 units**
 Continuation of Spanish 1A.
 Prerequisite: Spanish 1A or one year of high school Spanish.
 Three one-hour periods per week.
- 2A. Intermediate Spanish (fall) 3 units**
 Reading of modern short stories, novels, plays, and works descriptive of Latin-American civilization. Review of essentials of grammar, conversation.
 Prerequisite: Spanish 1B or two years of high school Spanish.
 Three one-hour periods per week.
- 2B. Intermediate Spanish (spring) 3 units**
 Continuation of Spanish 2A.
 Prerequisite: Spanish 2A or equivalent.
 Three one-hour periods per week.
- 5A.-5B. Advanced Reading (year) 3-3 units**
 Introduction to Spanish Literature.
 Prerequisite: Spanish 2B or equivalent.
 Three one-hour periods per week.

UPPER DIVISION

- 105A-105B. Survey of Spanish Literature (year) 3-3 units**
 A brief survey of Spanish literature from its beginning to the present time.
 Extensive reading of representative authors of Spain and Latin America.
 Prerequisite: Spanish 2B or four years of high school Spanish.
 Three one-hour periods per week.

DIVISION OF NATURAL SCIENCES

Biological Sciences
Physical Sciences

Mathematics
Engineering

OBJECTIVES

The objectives of the Division of Natural Sciences are to provide :

1. A general background in natural sciences for those training to become teachers in the elementary and secondary schools of the State.
2. Curricula leading to :
 - a. General Secondary Credential with major in Life Science and General Science, enabling the student to teach in the secondary schools of the State ; this program involves a year of graduate work.
 - b. The A.B. Degree in Biological Sciences, with differentiated majors in Biology, Botany, and Zoology, for :
 - (1) Students interested in research or graduate study in these fields.
 - (2) Candidates for state or federal civil service positions in the Biological Sciences.
 - c. The A.B. Degree in Pre-Medical Sciences.
 - d. The A.B. Degree in Wildlife Management.
3. Lower division preparatory or pre-professional curricula for students of agriculture, animal and plant science, dentistry, forestry, laboratory technology, nursing, optometry, pharmacy, veterinary science.
4. Lower division curricula in mathematics and physical science for engineering
5. Minors in Biology, Botany, Zoology, Chemistry, and Mathematics, designed to furnish a cultural background in the natural sciences and an appreciation of the scientific philosophy.

BIOLOGICAL SCIENCES

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN LIFE AND GENERAL SCIENCES

LOWER DIVISION

Science -----	22 units
(Botany 1A-1B, Zoology 1A-1B, Phys. Sci. 5A-5B)	
Art 20 (Recommended) -----	(2) units
English 1A-1B -----	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Orientation II -----	1 unit
Physical Education -----	2 units
(Including 5 or 15)	
Psychology 1 -----	3 units
Social Sciences -----	12 units
(Including History 70 * and Political Science 51 * and one-year course ; see page 38.)	
Electives -----	6 units
(Chosen from Art, Foreign Language, Music, Philosophy, Speech, English 46A-46B or 74A-74B)	
Completion of lower division requirements for a secondary minor. (See list on page 40.)	

* Subject requirement may be satisfied by examination; no unit credit.

UPPER DIVISION

Science	24 units
(Chosen from : Biology 101, 103, 114, 119 Botany 107, 110A-110B Physiology 101 Zoology 104, 112, 113, 160, 165 Chemistry 105, 108, 109)	

Education	16 units
(Education 110, 111, 115, 124, 137 or 148, 153, 195S, 170 ; see recommended sequence on page 57)	

Completion of upper division requirements for a secondary minor.

Electives to bring total to 120 units, thus completing requirements for the
A.B. Degree.

For admission to the graduate year, the student must maintain the following
scholarship standards :

Index on all work taken in the upper division	1.50
Index on all work taken in the major field	1.50
Index on all work taken in the minor field	1.00
Index on all work taken in Education courses	1.00

GRADUATE YEAR

Science	6 units
(Biology 201A-201B or Zoology 212 and Botany 212)	

Education	10-12 units
(Education 270, 340, and 4 units from 212, 265, and 299)	

Major, minor, or electives	6- 8 units
----------------------------------	------------

An index of 1.75 is required on all work taken in the graduate year.

A minimum of 24 units in the graduate year is required. Part of this
work may be taken in approved upper division courses.

LIBERAL ARTS DEGREE CURRICULA IN THE LIFE SCIENCE FIELD

BASIC REQUIREMENTS COMMON TO ALL

LOWER DIVISION

English 1A-1B	6 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in High School)	
Physical Education	2 units
(Including 5 or 15)	
Psychology 1	3 units
Social Sciences	12 units
(Including History 70 * and Political Science 51 * and one year course. See page 38)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor, chosen from the list of minors on page 40,
and must maintain a "C" average in all work taken toward the degree, and in all
work taken in the major and minor.

The student who expects to transfer to another institution for upper division or
graduate work should consult the catalog of that institution, particularly in regard
to requirements in foreign language.

SPECIFIC REQUIREMENTS FOR DIFFERENTIATED MAJORS

BIOLOGICAL SCIENCES

(For other requirements, see basic requirements given above.)

LOWER DIVISION

Biological Sciences	12 units
(Biology 10A-10B, Botany 4, Zoology 4)	

* Subject requirement may be satisfied by examination; no unit credit.

Physical Sciences 5A-5B	6 units
Electives	12 units

Year courses chosen from:

1. Mathematics C and D or 1; 3A-3B, 4A-4B
2. Music 3-4 or Art 1-2
3. Philosophy 6A-6B

UPPER DIVISION

Twenty-four units chosen from Upper Division Biological Sciences.
Not more than 15 units should be taken in either Zoology or Botany.

BOTANY

(For other requirements, see page 104.)

LOWER DIVISION

Botany 1A-1B	8 units
Physical Sciences	14 units
(Chemistry 1A, 8, Physics 2A-2B)	
Electives	12 units

Year courses chosen from:

1. Mathematics C and D or 1, 3A-3B, 4A-4B
2. Music 3-4 or Art 1-2
3. Philosophy 6A-6B

UPPER DIVISION

Biological Sciences	24 units
(Chosen from:	
Biology 101, 103, 114, 199;	
Botany 101A-101B, 107, 110A-110B, 114)	

ZOOLOGY

(For other requirements, see page 104.)

LOWER DIVISION

Zoology 1A-1B	8 units
Physical Sciences	14 units
(Chemistry 1A, 8, Physics 2A-2B)	
Electives	12 units

Year courses chosen from:

1. Mathematics C and D or 1, 3A-3B, 4A-4B
2. Music 3-4 or Art 1-2
3. Philosophy 6A-6B

UPPER DIVISION

Biological Sciences	24 units
(Chosen from:	
Biology 103, 114, Physiology 101, Zoology 101, 104, 112,	
113, 114, 160, 165, 199)	

PRE-MEDICAL SCIENCES

(For other requirements, see page 104.)

LOWER DIVISION

Natural Sciences	26 units
(Zoology 1A-1B, Chemistry 1A-1B, Physics 2A-2B, 3A-3B)	
Foreign Languages ¹	10 units
(In not more than two languages. Two years of the same foreign language in high school will be counted in satisfaction of six units of this requirement. Part of this requirement may be satisfied by upper division courses)	

Electives	12 units
(Chosen from Art, Music, Speech, Philosophy, or English 46A-46B or 74A-74B)	

¹ The student should check the institutional requirements of the medical school he expects to enter. If he expects to transfer to the University of California, he should follow the requirements for the Associate in Arts degree (as given on page 41), and must also include 8 units in a modern foreign language as part of the 16 units required.

UPPER DIVISION

Natural Sciences	24 units
(Including Biology 103, 114; Zoology 114, 160; Chemistry 102, 105, 108-109)	

Note: Since acceptance by the medical school is conditioned largely upon scholarship, particularly in the required subjects, pre-medical students are urged to bear in mind the importance of distinctly high scholarship in the undergraduate work.

REQUIREMENTS FOR THE A.B. DEGREE IN WILDLIFE MANAGEMENT

LOWER DIVISION

Wildlife Management	9 units
(WM 10, 15, 60)	
Agriculture 1	3 units
English 1A-1B	6 units
Home Economics 20	2 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Science	26 units
(Botany 1A, 4; Chemistry 1A, Zoology 1A-1B, 35, 65)	
Physical Education	2 units
(Including Phys. Educ. 5 or 15)	
Psychology 1	3 units
Social Science	13 units
(Economics 1A-1B, 40; History 70,* Political Science 51.* See page 38.)	
Electives	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, English 46A-46B, or 74A-74B)	

UPPER DIVISION

Wildlife Management	15 units
Agriculture 104	3 units
Biology 114	3 units
Botany 110A-110B	6 units
Physiology 102	5 units
Zoology 170	3 units

Electives to bring total units up to 120. Recommended electives are: Trigonometry, Typing, Anatomy, Surveying, News Writing, Plant Ecology, Embryology, Soil Science, and Speech.

A minimum of 40 upper division units must be completed.

The program as outlined above includes a minor in Botany. No additional minor is required.

The student must maintain a "C" average in all work taken toward the degree and in all work taken in the major and minor fields.

REQUIREMENTS FOR

<i>Junior High School Major in Biological Sciences</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	
Biol. 10A-10B	6 units
Bot. 4	3 units
Zool. 4	3 units
Upper Division	
12 units of Upper Division Biol- ogy, Botany, or Zoology	12 units
Total units required	24 units
Additional requirements for the Junior High School Credential are given in de- tail on pages 53-55.	
	Biol. 10A-10B
	Chem. 1A
	Zoology 4
	Botany 4
	9 units from :
	Botany 110A-110B, 107, or
	Zoology 104, 113, 165
	(Not more than 6 units in one field)
	9 units
	Total units required
	26 units

* Subject requirement may be satisfied by examination; no unit credit.

<i>Biology Minor</i>	<i>Botany Minor</i>	<i>Zoology Minor</i>
Lower Division	Botany 1A-1B ____8 units	Zoology 1A-1B __8 units
Biology 10A-10B ____ 6 units	or Biology 10A-10B__6 units and Botany 4____3 units	or Biology 10A-10B_6 units and Zoology 4___3 units
Upper Division		
6 units chosen from—	6 units chosen from—	6 units chosen from—
Biology 101 _____ 3 units	Any U. D. Botany	Any U. D. Zoology
Biology 114 _____ 3 units	course	course
Botany 114 _____ 3 units	Biology 114 ____3 units	Biology 101____3 units
Botany 107 _____ 3 units		Biology 114____3 units
Botany 110A-110B 6 units		
Zoology 165 _____ 3 units	The Biology minor is recommended for credential candidates but is not advised for students planning to transfer to or do graduate work at a university.	
Total units required_12 units	Total units required ____14-15 units	Total units required__14-15 units

Note: Specialized minors in Biological Sciences for Physical Education majors are outlined on pages 87 and 88.

DESCRIPTION OF COURSES

BIOLOGICAL SCIENCES

Agriculture

LOWER DIVISION

1. Agronomy 3 units

Principles of the culture and distribution of field crops. Seed selection, maintenance of soil fertility, preparation of the seed bed. Important factors in the development of typical cereal and forage crops.

Three one-hour periods per week.

UPPER DIVISION

100. Elementary Soil Science (spring) 3 units

Introduction to the development and characteristics of soils with emphasis on soil conservation.

Three one-hour periods per week.

104. Range and Farm Livestock Management (spring) 3 units

General principles and practices underlying the management of range and farm livestock.

Three one-hour periods per week.

Prerequisite: Agriculture 1.

Anthropology

*1A. Physical Anthropology (spring) 3 units

An account of the origin and development of human races, the nature of man, and his place in the biological world.

Three one-hour periods per week.

* Not given 1947-48.

Bacteriology**1. General Bacteriology (fall)****5 units**

Morphology, physiology, and classifications of bacteria, yeasts and molds. Laboratory training in micro-technique, preparation of culture media, sterilization, inoculation, identification. Bacteriology of air, water, soil, and dairy products. The rudiments of infection and bacterial diseases.

Three one-hour lectures and two three-hour laboratory periods per week.

Biology**LOWER DIVISION****10A-10B. General Biology (year)****3-3 units**

An outline of the main facts and principles of plant and animal life. Lectures and demonstrations on the fundamental properties of living things; their functions, structures, classifications, life histories, and relation to human life.

Two one-hour lecture periods and one three-hour laboratory period per week.

UPPER DIVISION

Prerequisite to all upper division Biology courses is either Biology 10A-10B, Botany 1A-1B, or Zoology 1A-1B.

101. Marine Biology (summer session)**3 units**

A study of the habits, classification, development, and adaptations of marine life, with particular reference to conditions of the Humboldt coast.

Two one-hour lectures and one three-hour laboratory period or field trip per week.

103. Micro-Technique (fall)**2 or 3 units**

Preparation of plant and animal tissue for microscopical study, including killing, fixing, staining, and sectioning methods.

Two or three three-hour periods per week.

114. Heredity and Evolution (fall)**3 units**

The facts of heredity and Mendel's laws with the application of these laws to plants and animals, including man, are taken up through lectures and assigned reading. Study is made of the various theories of evolution.

Three one-hour periods per week.

190. Elementary School Science (fall)**2 units**

Objectives, methods, and content of the elementary school science program.

Two one-hour periods per week.

199. Special Problems (fall, spring)**1-3 units**

Limited to majors in Biological Sciences. Student and problem to be approved by the department. Student carries on independent study and investigation in consultation with instructor assigned to him.

Botany

NOTE.—Arcata is an excellent location for all kinds of botanical study. Ocean reefs are located within four miles, a heavy coniferous forest adjoins the campus on the east, and within forty miles horizontal travel one may reach all altitude ranges from sea level to five thousand feet.

Botany courses are fundamental courses to all students in the plant sciences and are basic courses for such occupations as the following: Plant Pathologist, Bacteriologist, Forester, Forest Pathologist, Farm Adviser, High School Science Teacher, Agriculturist, Nurseryman, Landscape Gardener or Architect, Florist, Seedsman, Horticulturist, etc.

The facilities of the department include well equipped laboratories, an herbarium of local flora, and a greenhouse.

LOWER DIVISION**1A-1B. General Botany (year)****4-4 units**

First semester: The fundamentals of the morphology and physiology of flowers, fruit, seeds, seedlings, roots, stems, and leaves.

Second semester: Lower orders of plants, introduction to the taxonomy of the flowering plants.

Field trips will be made to points near the College, and a large part of the material used in the laboratory will be collected by the students.

Two one-hour lectures and two three-hour laboratory periods per week.

4. Classification of Flowering Plants (spring or summer session) **3 units**

Lectures on the principles of classification; laboratory exercises on plant structure; practice in determinations by means of a manual.

Two one-hour lectures and one three-hour laboratory periods per week.

UPPER DIVISION

Prerequisite to all upper division courses in Botany is Botany 1A-1B, or Biology 10A-10B and Botany 4.

101A-101B. Mycology (year) **3-3 units**

First semester: Morphology, taxonomy, and parasitism of representative genera of fungi. Phycomycetes and Ascomycetes. Field work on conspicuous Basidiomycetes not likely to be found in the spring.

Second semester: Basidiomycetes and fungi imperfecti.

One lecture and two three-hour laboratory periods per week.

107. Plant Ecology (fall) **3 units**

A general survey of plants and plant associations in relation to environment. Particular attention will be given to the study of successional and habitat factors as determining the local distribution of native plants as well as an adaptation of native plants to this area.

Three one-hour periods per week.

110A-110B. Plant Taxonomy (year) **3-3 units**

First semester: A study of the forest trees and shrubs, with field identification, and a critical study of the characters and habitats of gymnosperms.

Second semester: A study of representative orders of flowering plants; their habits, growth, structure, classification, and geographical distribution.

One one-hour lecture and two three-hour laboratory periods per week.

Prerequisite: Botany 4.

114. Advanced Ornamental Plants (spring) **3 units**

Study of the more common ornamental trees and shrubs, with principles of landscaping. Greenhouse work in various methods of propagation, potting, culture, etc.

One lecture and two three-hour laboratory periods per week.

Paleontology

1. General Paleontology (spring) **3 units**

The history and principles of the development of life on the earth. History of the development of man and his relation to vertebrate life.

Three one-hour lecture periods per week.

Physiology and Anatomy

LOWER DIVISION

1. Elementary Physiology (spring) **5 units**

A general introductory course on human physiology.

Three one-hour lectures and two three-hour laboratory periods per week.

66. Human Anatomy (fall) **3 units**

Demonstration and laboratory study of human dissections, models, and prepared microscopic slides. Designed particularly for nurses and Physical Education majors.

Prerequisite: Zoology 1A.

One one-hour lecture and two three-hour laboratory periods per week.

UPPER DIVISION

101. Human Physiology (spring) **5 units**

A more advanced course for upper division students.

Wildlife Management**LOWER DIVISION****2. Wildlife Conservation (fall) 3 units**

An introductory course designed to orient and acquaint the student with the broad aspects of natural resource conservation, with stress on the interaction of the many agencies concerned. A survey of modern methods applied to conservation, and the history of the wildlife management movement. This course is also organized to provide prospective teachers with the necessary tools for teaching the fundamentals of good conservation habits.

Three one-hour periods per week.

5. Wildlife Techniques (spring) 3 units

A practical course designed to teach wildlife students the diversified duties required of them which are not included in usual classwork. Fly-tying, preparation of museum specimens, knot-tying, ballistics, evidence collection, dressing and preserving wild meat, breeds of dogs, fishing and trapping techniques, state and federal game laws.

One lecture and two two-hour laboratory periods per week.

20. Principles of Wildlife Management (fall) 3 units

An intensive study of wildlife management practices. The theory and application of scientific research as it applies to wild animals. Measurement of game and fish populations and productivity. Economic aspects of game populations.

Three one-hour periods per week.

Prerequisite: WM 2.

UPPER DIVISION**131. Management of Game Fish (spring) 3 units**

The inland fishes of North America with special reference to trout, salmon, and spiny-rayed fishes. Stream and lake surveys, pollution, farm fish ponds, and hatchery methods. Each student will have the personal responsibility of rearing several thousand trout or salmon in the college hatchery.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: WM. 20.

132. Commercial Fisheries (fall) 3 units

The marine fisheries. The biology and management of important fish and shellfish. Harvesting methods by trips at sea on commercial vessels.

Three one-hour periods per week. Field trips by arrangement.

Prerequisite: WM. 20.

150. Management of Big-game (fall) 3 units

Species of big-game mammals, habits, distribution, management, values, laws. Three-day field trip to Siskiyou mountains, Tule Lake, Shasta Dam, Yountville game farm.

Two one-hour lectures; one three-hour laboratory period per week.

Prerequisite: Zoology 35 and WM. 20.

152. Management of Furbearers (fall) 3 units

Species of furbearers; their life histories and management. Emphasis on wild species with field trips to local fur farms.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisite: WM. 20 and Zool. 35.

171. Management of Game Birds (spring) 3 units

Intensive study of upland game birds and waterfowl, their life histories and management in the United States. Liberation, population estimates and rearing. Each student will have a personal responsibility in rearing about 800 pheasants a season in the college rearing pens.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisite: Zoology 65 and WM. 20.

Zoology

LOWER DIVISION

1A-1B. General Zoology (year) 4-4 units

A year course dealing with principles of animal biology together with a review of representative animal forms.

Two one-hour lectures and two three-hour laboratory periods per week.

4. Animal Classification (fall or summer session) 3 units

Elementary classification and natural history of the common vertebrates and invertebrates; life histories and methods of conservation. Emphasis is on the animal life of the Humboldt Bay region. Designed for teaching credential candidates who do not elect Zoology 1A.

Two one-hour lectures and one three-hour laboratory period per week.

35. Mammalogy 3 units

Study of the classification, anatomy, distribution, and life histories of mammals.

Two one-hour lectures and one three-hour laboratory period per week.

UPPER DIVISION

Prerequisite to all upper division courses is Zoology 1A-1B, or Biology 10A-10B and Zoology 4.

104. Field Zoology (fall or summer session) 3 units

Collection, identification, and preservation of common invertebrates and vertebrates of Humboldt Bay region. Discussion of ecological relationships. Each student works on an individual problem.

Two one-hour lectures and one three-hour laboratory period per week.

112. Invertebrate Zoology (fall) 3 units

A study of animals without backbones, with special reference to the natural history and classification of the animals of the seashore.

Two one-hour lectures and one three-hour laboratory period per week.

113. Natural History of Vertebrates (spring) 3 units

Natural history of the birds, mammals, reptiles, amphibians, and fishes. Identification of species, study of habitat, preferences, behavior, distribution, and classification.

Two one-hour lectures and one three-hour laboratory period per week.

†114. Comparative Anatomy of Vertebrates 3 units

Two one-hour lectures and one three-hour laboratory period per week.

160. Embryology (spring) 3 units

The maturation of egg and sperm; fertilization; and the early development of the amphibian, chick, and mammal.

One one-hour lecture and two three-hour laboratory and demonstration periods per week.

165. Ornithology (spring or summer session) 3 units

A study of birds, which includes classification, life histories, migration, habits, and special modifications. Identification of birds in field and laboratory.

Two one-hour lectures and one three-hour laboratory period per week.

170. Entomology (spring) 3 units

The classification, life histories, distribution, and control of insects, with special application to agriculture and game management.

Two lectures and one three-hour laboratory period.

199. Special Problems 1-3 units

Individual work in zoology or wildlife management for upper division students who show special aptitude. Conference, reading, and research.

† Given if sufficient demand.

PHYSICAL SCIENCES**5A-5B. Fundamentals of the Physical Sciences (year) 3-3 units**

A general survey of the physical sciences designed primarily for credential candidates, but open to others who desire six units of lower division credit in physical science.

Three one-hour lectures or demonstration periods per week.

Chemistry**LOWER DIVISION****1A-1B. General Chemistry (year) 5-5 units**

The fundamental concepts of chemistry, with emphasis on the relation of chemical behavior to atomic structure.

Prerequisites: High school chemistry or Physics, and at least two years of high school mathematics.

Three one-hour lecture and two three-hour laboratory periods per week.

UPPER DIVISION**102. Biochemistry 3 units**

Application of chemistry to biological processes; chemistry of the tissues, the digestive processes, the blood, metabolism, and nutrition.

Prerequisite: Chemistry 108.

Three one-hour periods per week.

105. Quantitative Analysis (summer session) 3 units

Principles and methods of quantitative analysis. Study of methods used in industrial, agricultural and medical work.

Prerequisite: Chemistry 1B with grade of "C" or higher.

108. Organic Chemistry Lecturers (spring and summer session) 3 units

A survey of the carbon compounds.

Prerequisite: Chemistry 1A or Chemistry 2.

Three one-hour lecture periods per week.

109. Organic Chemistry Laboratory (summer session) 3 units

Study of the carbon compounds in the laboratory. Taken concurrently with or following Chemistry 108.

Three three-hour laboratory periods per week.

Geology**1A. General Geology (fall) 3 units**

A survey of the nature and structure of the material composing the earth and of the various processes which have shaped or are still shaping the earth.

Three one-hour periods per week and field trips.

Physics**2A-2B. General Physics Lectures (year) 3-3 units**

A general survey of physics for non-engineering students. Less emphasis is placed on the quantitative aspect of the subject and the mathematical treatment is minimized.

Three one-hour lectures, discussion, and demonstration periods per week.

3A-3B. General Physics Laboratory (year) 1-1 unit

Experimental work in mechanics, properties of matter, heat, sound, light, magnetism, and electricity. To accompany Physics 2A-2B.

One three-hour laboratory period per week.

4A. General Physics (spring) 4 units

Mechanics and properties of matter.

Three lectures and one three-hour laboratory period per week.

4B. General Physics (spring) 4 units

Magnetism, electricity, and modern physics.

Prerequisite: Physics 4A.

Three lectures and one three-hour laboratory period per week.

- 4C. General Physics (fall)** 4 units
Wave motion, heat, sound, and light.
Prerequisite: Physics 4B.
Three lectures and one three-hour laboratory period per week.
- 15. Elementary Physics of Sound and Color (fall)** 3 units
Science of sound, musical instruments, and acoustics, theory of color. For art and music majors.
Three one-hour periods per week.
- 30. Elementary Meteorology (fall or summer session)** 3 units
Absorption and distribution of solar energy; structure and dynamics of the atmosphere; and methods of recording and predicting the weather. Designed especially for students in aeronautics.
- 51. Elementary Electronics (spring)** 2 or 3 units
Non-radio applications of electronic tubes; theory and operation.
One lecture and two three-hour laboratory periods per week.
- Engineering**
- 1A-1B. Plane Surveying (year)** 3-3 units
Principles, field practice, calculation, and mapping.
Prerequisite: Plane trigonometry and Industrial Education 7A or its equivalent.
Two one-hour lecture and one three-hour laboratory periods per week.
- 8. Materials of Engineering Construction** 2 units
Structural properties and adaptability of various materials.
Prerequisite: Sophomore standing in Engineering.
- 22. Engineering Drawing (fall)** 2 units
Fundamentals of engineering drawing. Covers orthographic projection, geometrical construction, pictorial drawing and sketching, sectioning, fasteners, and simple working drawings.
Prerequisite: Ind. Educ. 7A (or a year of high school mechanical drawing) and Mathematics C.
Six hours per week, lecture and drafting.
- 23. Descriptive Geometry (spring)** 2 units
Principles of descriptive geometry and the solution of three-dimensional problems. Applications in various branches of engineering.
Prerequisite: Engineering 22, Math 3A.
Two one-hour lectures and two two-hour drafting periods per week.
- 24. Advanced Engineering Drawing (fall)** 2 units
Freehand sketching in orthographic and pictorial projections; working drawings; structural detailing; electrical and piping layouts; and introduction to graphic integration and differentiation.
Prerequisite: Engineering 23.
Six hours per week, lecture and drafting.
- 35. Statics and Kinematics (spring)** 3 units
Forces, equilibrium conditions; displacement, velocity and acceleration relations; and their application to engineering problems.
Prerequisite: Physics 4A and Mathematics 4A.
Three one-hour periods per week.
- 40. Engineering Metallurgy (fall)** 3 units
Structure of metals and alloys. Properties of metals and alloys as related to their structure and composition.
Prerequisite: Physics 4A.
Three one-hour periods per week.
- 41. Manufacturing Processes (fall)** 4 units
Nonmetallic materials used in manufacturing and their processing, plastics, and wood products; casting and forming processes. Use of precision gauges and standard machine tools. Welding. Decorative and protective coatings.
Prerequisite: Engineering 23 and 40.
Three class hours and one three-hour period per week.

MATHEMATICS**MINOR REQUIREMENTS**

<i>Minor in Mathematics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division
Mathematics 3A-3B ----- 6 units	Mathematics 3A-3B ----- 6 units
Upper Division	Upper Division
Mathematics 104A-104B ---- 6 units	Mathematics 104A-104B ---- 6 units
Total units required -----12 units	Mathematics 119A-119B ---- 6 units
	Total units required -----18 units

DESCRIPTION OF COURSES**LOWER DIVISION**

If the student has not had Elementary Algebra and Plane Geometry in high school, it is necessary that he pass courses in these subjects if he is a candidate for the A.B. Degree. Subcollegiate, noncredit courses in Mathematics A (Elementary Algebra), and Mathematics B (Plane Geometry) will be offered whenever there is sufficient demand.

C. Trigonometry (fall) 3 units

Plane trigonometry and spherical right triangles.

Prerequisite: Plane geometry and one and one-half years of high school algebra or Mathematics D.

Three one-hour periods per week.

D. Intermediate Algebra (fall) 3 units

Quadratic equations; exponents and radicals; theory of equations; elementary determinants; progressions; and the binominal theorem.

Prerequisite: One year of high school algebra or general mathematics.

Three one-hour periods per week.

†E. Solid Geometry (spring) 2 units

Prerequisite: Elementary algebra and plane geometry.

Two one-hour periods per week.

1. College Algebra (spring) 3 units

Theory of equations; determinants; equations of third and fourth degrees.

Prerequisite: Mathematics 3A.

Three one-hour periods per week.

2. Mathematics of Finance (spring) 3 units

Theories of interest and annuities applied to amortization, valuation, investment, depreciation, and insurance.

Prerequisite: Two years of high school algebra or Mathematics D.

Three one-hour periods per week.

3A. Analytic Geometry and Calculus (fall) 3 units

Elements of analytic geometry and differential calculus. Also a survey of the principles of integral calculus, with applications to mechanics.

Prerequisite: Mathematics C.

Three one-hour periods per week.

3B. Analytic Geometry and Calculus (spring) 3 units

A continuation of differential and integral calculus unified with analytic geometry. This course also includes an introduction to the calculus of vectors, and polar coordinates.

Prerequisite: Mathematics 3A.

Three one-hour periods per week.

† Given if sufficient demand.

4A. Analytic Geometry and Calculus (fall) 3 units

A review of the principles of differentiation, integration, and vectors. An intensive study of formal integration, infinite series, and applications to mechanics and physics.

Prerequisite: Mathematics 3A-3B.

Three one-hour periods per week.

4B. Integral Calculus (spring) 3 units

Multiple integration, partial differentiation, hyperbolic functions, line integrals, spherical and cylindrical coordinates, with an introduction to differential equations.

Prerequisite: Mathematics 4A.

Three one-hour periods per week.

20. Mathematics of the Elementary School (fall, spring) 2 units

Operations and principles essential to the manipulation of fractions, equations, and formulae, with application to design, graphics, statistics, investment, and engineering.

Two one-hour periods per week.

UPPER DIVISION

104A-104B. Integral Calculus and Solid Analytics (year) 3-3 units

First semester: Continues the development and application of the calculus. Infinite series, partial derivatives.

Second semester: Quadric surfaces and multiple integration.

Prerequisite: Mathematics 3A-3B.

Three one-hour periods per week.

119A-119B. Differential Equations 3-3 units

Prerequisite: Mathematics 104A-104B.

Three one-hour periods per week.

DIVISION OF SOCIAL SCIENCES

Business
Economics
Geography
History

Philosophy
Political Science
Psychology
Sociology

OBJECTIVES

The objectives of the Division of Social Sciences are to make a contribution to the general education of all students ; more specifically, to provide :

1. Courses intended to develop understanding and appreciation of the interrelated political, social and economic institutions and problems of the day for the intelligent exercise of the duties of citizenship. This objective is especially important for those training to become teachers.
2. Curricula leading to :
 - a. General Secondary Credential with major in Social Sciences, enabling the holder to teach in the secondary schools of the State ; this program involves a year of graduate work.
 - b. The A.B. Degree with differentiated majors in
 1. Social Sciences for students desiring a general cultural education with emphasis upon the social studies.
 2. Social Service, for those interested in the field of Social Welfare.
 3. History, for students interested in graduate work in this specialized field.
 4. Economics and Business Administration for those seeking to obtain managerial positions in business or government positions.
3. A three-year curriculum directed towards the A.B. Degree and Special Secondary Credential in Business Education.
4. A two-year, terminal, vocational course in Secretarial Training.

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN SOCIAL SCIENCES

LOWER DIVISION

Social Sciences	22 units
(History 4A-4B, 70,* Economics 1A-1B, Political Science 51* and six units from Political Science 1A-1B or Sociology 1A-1B. See page 38.)	
English 1A-1B	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Orientation II	1 unit
Physical Education	2 units
(Including Phys. Educ. 5 or 15)	
Natural Sciences	12 units
(See page 38.)	
Psychology 1	3 units
Electives	6 units
(Chosen from Art, Foreign Language, Music, Philosophy, Speech, English 46A-46B or 74A-74B.)	
Completion of lower division requirements for a secondary minor. See list on page 40.)	

* Subject requirement may be satisfied by examination; no unit credit.

UPPER DIVISION

Social Sciences	24 units
(a) 6 units chosen from History 121A-121B, 149, 161A-161B, 171, 172, 173;	
(b) 6 units chosen from Economics 106, 113, 135, 150, 185, 188, 190A.	
Note: Students may substitute for either requirement (a) or (b), but not for both, 6 units chosen from either Sociology 101, 110A, 110B, and 160, or from Political Science 112, 126, 127, 128.	
(c) 12 additional units in Economics or 12 additional units in History.)	
Education	16 units
(Education 110, 111, 115, 124, 137 or 148, 153, 195SS, 170; see recommended sequence on page 57.)	
Completion of upper division requirements for a secondary minor.	
Electives to bring total to 120 units, thus completing requirements for the A.B. Degree.	
For admission to the graduate year, the student must maintain the following scholarship standards:	
Index on all work taken in the upper division	1.50
Index on all work taken in the major field	1.50
Index on all work taken in Education courses	1.00
Index on all work taken in the minor field	1.00

GRADUATE YEAR

Social Sciences	6 units
(A year-course in Economics 201A-201B, History 254A-254B, or History 281A-281B)	
Education	10-12 units
(Education 270, 340, and four units from 212, 265, and 299)	
Major, minor, or electives	6-8 units
An index of 1.75 is required on all work taken in the graduate year.	
A minimum of 24 units in the graduate year is required.	

LIBERAL ARTS DEGREE CURRICULA IN THE SOCIAL SCIENCES

BASIC REQUIREMENTS COMMON TO ALL

LOWER DIVISION

English 1A-1B	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences	12 units
(See page 38.)	
Physical Education	2 units
(Including Phys. Educ. 5 and 15)	
Psychology 1	3 units
Electives	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B, or 74A-74B)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor, chosen from the list of minors on page 40, and must maintain a "C" average in all work taken toward the degree, and in all work taken in the major and the minor.

The student who expects to transfer to another institution for advanced work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

SPECIFIC REQUIREMENTS FOR DIFFERENTIATED MAJORS

SOCIAL SCIENCES

(For other requirements, see basic requirements given above.)

LOWER DIVISION

Social Sciences	22 units
(History 4A-4B, 70,* Economics 1A-1B, Political Science 51,* and six units in either Political Science 1A-1B or Sociology 1A-1B. See page 38)	

* Subject requirement may be satisfied by examination; no unit credit.

UPPER DIVISION

Social Sciences -----	24 units
(Economics, 6 units; History, 6 units; approved electives, 12 units)	

SOCIAL SERVICE

(For other requirements, see page 117.)

LOWER DIVISION

Social Sciences -----	15 units
(Economics 1A-1B, 40, Sociology 1A-1B, History 70 * and Political Science 51.* See page 38)	
Home Economics 20-----	2 units

UPPER DIVISION

Social Sciences -----	24 units
(Economics 105 or 106, 113, 150, 185, 188, Sociology 102, 110B, 160)	
Health and Hygiene 160-----	3 units

HISTORY

(For other requirements, see page 117.)

LOWER DIVISION

Social Sciences -----	12 units
(Including History 4A-4B and History 70 * (or their equivalents), and Political Science 51.* See page 38. History 70 should be taken in the Sophomore year. History 8A-8B is recommended)	
Foreign Language -----	10 units
(See page 41. History majors are advised to complete at least six additional units in foreign language or the equivalent)	

UPPER DIVISION

History -----	24 units
(Including :	
(a) A six-unit survey course of broad scope in each of two fields, European and American History	
(b) History 197 or 198 (required in the senior year)	
(c) History 199A-199B	
(d) Electives from History, Economics 113, Political Science 126, 127, and 128, chosen in consultation with major advisor)	

ECONOMICS AND BUSINESS ADMINISTRATION

(For other requirements, see page 117.)

LOWER DIVISION

Economics and Business Administration-----	18 units
(Economics 1A-1B, 40; Bus. Adm. 14A-14B, 18)	
Geography 5A-5B -----	6 units
History 4A-4B -----	6 units

UPPER DIVISION

Economics and Business Administration-----	24 units
(Economics 113, 135, 150, 190A; Bus. Adm. 118, 120, 133, 134)	

REQUIREMENTS FOR THREE-YEAR COURSE LEADING TO AN A.B. DEGREE AND SPECIAL SECONDARY CREDENTIAL IN BUSINESS EDUCATION †

(In addition to the academic requirements for this credential, the State requires 1,000 hours or six months of acceptable business experience.)

LOWER DIVISION

Business Administration -----	28 units
(Bus. Adm. 1A-1B, 2A-2B, 5A, 14A-14B, 18, 21, 50)	

* Subject requirement may be satisfied by examination; no unit credit.

† Fourth year to be completed at an institution authorized to grant this credential.

English 1A-1B	3 units
Health and Hygiene 1	2 units
Natural Science	12 units
(Biology 10A-10B, and six additional units, four of which may be in the upper division)	
Physical Education	2 units
Psychology 1	3 units
Social Sciences	13 units
(Economics 1A-1B, Geography 5A, History 70,* Political Science *)	
Speech 1	3 units

UPPER DIVISION

Economics and Business Administration	24 units
(Bus. Adm. 101, 118, 120, 134, 160A; Economics 135)	
Education 110	2 units

REQUIREMENTS FOR

Junior High School Majors

<i>Economics</i>		
Lower Division	Economics 1A-1B	6 units
	History 4A-4B or	
	Political Science 1A-1B	6 units
Upper Division	U.D. Economics	12 units
Total units required		24 units

<i>History</i>		
Lower Division	Economics 1A-1B or	
	Political Science 1A-1B	6 units
	History 4A-4B	6 units
Upper Division	U.D. History	12 units
Total units required		24 units

<i>Social Sciences</i>		
Lower Division	Economics 1A-1B or	
	History 4A-4B	6 units
	Political Science 1A-1B or	
	Sociology 1A-1B	6 units
Upper Division	U.D. Social Science	12 units
Total units required		24 units

Additional requirements for the Junior High School Credential are given in detail on pages 53-55.

<i>Minors</i>					
	<i>Economics</i>	<i>Bus. Adm.</i>	<i>History</i>	<i>Pol. Sci.</i>	<i>Sociology</i>
Lower Division	1A-1B	14A-14B	4A-4B	1A-1B	1A-1B
Upper Division	6 units	6 units	6 units	6 units	6 units
Total units required ..	12 units	12 units	12 units	12 units	12 units

* Subject requirement may be satisfied by examination; no unit credit.

Minors for Candidates for the General Secondary Credential

<i>Social Sciences</i>		<i>Economics</i>	
Lower Division		Lower Division	
History 4A-4B	6 units	Economics 1A-1B	6 units
Economics 1A-1B	6 units	History 4A-4B or	
		Pol. Sci. 1A-1B	6 units
Upper Division		Upper Division	
6 units in History chosen		9 units chosen from: Eco-	
from: 121A-121B, 149, 161A-		nomics 106, 113, 150, 185,	
161B, 171, 172, 173, 199A-		188 or 190A	9 units
199B	6 units		
6 units in Economics chosen			
from Economics 106, 113,			
135, 150, 185, 188, or 190A	6 units		
Total units required	24 units	Total units required	21 units

<i>History</i>	<i>Shorthand and Typing</i>	<i>Bookkeeping and Commercial Law</i>
Lower Division	Lower Division	Lower Division
Hist. 4A-4B____6 units	B.A. 1A-B-C __12 units	B.A. 14A-14B __6 units
Econ. 1A-1B <i>or</i>	B.A. 2A-B-C __ 6 units	B.A. 18 _____3 units
Soc. 1A-1B____6 units	B.A. 105 _____ 2 units	B.A. 2A-2B _____4 units
Upper Division	Upper Division	Upper Division
9 units chosen	B.A. 101 _____ 3 units	B.A. 118 _____3 units
from : Hist.	B.A. 105 _____ 2 units	B.A. 160A-160B_6 units
121A-121B,	B.A. 112 _____ 3 units	Elective in B.A.
149, 161A-		or Economics_3 units
161B, 171, 172,		
173, 199A-		
199B _____9 units		
Total units required _____21 units	Total units required _____26 units	Total units required _____25 units

CURRICULUM IN SECRETARIAL TRAINING

The College offers a two-year terminal curriculum in Secretarial Training, a thorough course which prepares students for stenographic or secretarial positions. Students electing this curriculum must complete a minimum of 60 semester units of college work and must maintain a scholarship average of "C" in order to receive the two-year diploma.

Practical experience will be provided through the cooperation of business and professional employers. During the school year, students will be given opportunities for practical experience in actual employment situations under the supervision of the Business Administration staff.

Recommended Sequence**FRESHMAN YEAR**

B.A. 1A-1B	8 units
B.A. 2A-2B	4 units
B.A. 4	2 units
B.A. 5	1 unit
B.A. 12	3 units
B.A. 21	3 units
B.A. 50	2 units
English 1A-1B	6 units
Physical Education (Including 5 or 15)	1 unit

SOPHOMORE YEAR

B.A. 1C-1D	8 units
B.A. 2C-2D	4 units
B.A. 14A-14B	6 units
B.A. 18	3 units
B.A. 101	3 units
B.A. 105	2 units
B.A. 112	3 units
Physical Education	1 unit

DESCRIPTION OF COURSES

HISTORY

LOWER DIVISION

4A-4B. History of Western Civilization (year) 3-3 units

A rapid survey of the political, economic, social, religious, and cultural development of western civilizations from ancient times to the present.

First semester : From ancient times to 17th century.

Second semester : From 17th century to the present.

History 4A is not necessarily prerequisite to 4B, although this sequence is recommended.

Three one-hour periods per week.

8A-8B. History of the Americas (year) 3-3 units

A study of the development of the Western Hemisphere from the discovery to the present. The first semester places emphasis upon exploration and settlement, colonial growth, imperial rivalries, and includes the achievement of independence. The second semester emphasizes the growth and development of the American nations and people in the last century and a quarter.

Three one-hour periods per week.

70. History of the United States (fall) 2 units

A rapid survey from colonial times to the present. Development of the major political and social institutions of the American people; economic development; sectionalism; expansion. Emphasizes main currents.

This course meets the requirements in United States History established by the Legislature of California.

Two one-hour periods per week.

UPPER DIVISION

Prerequisite to all upper division courses in History : History 4A-4B, and History 70 or consent of the instructor.

121A-121B. The Middle Ages (year) 3-3 units

121A is a survey of the early Middle Ages. It covers the main events of European history from the fall of the Roman Empire to about 1150 A. D.

121B is a survey of the later Middle Ages. It covers the main events of European history from 1150 to 1450 with emphasis upon social, cultural, religious, and economic foundations of Western Europe.

Three one-hour periods per week.

142. History of Western Europe 3 units

The political, economic, and social history of Western Europe from the Reformation to the French Revolution.

148. Recent World History 3 units

Political, economic, and social developments leading to World Wars I and II. Includes present-day international relations.

Three one-hour periods per week.

149. History of Russia 3 units

Internal history of Russia with emphasis on Soviet Russia; Russia and the Soviet Union, the world politics, and world economics.

151A-151B. Economic, Political and Social History of England 3-3 units

A study of the principal currents in political and social progress of England in modern times. Special emphasis is placed on economic trends and developments.

Three one-hour periods per week.

161A-161B. Hispanic America 3-3 units

The first semester covers the history of Latin America through the Wars of Independence. The second semester brings the history of these countries up to the present time. It includes a study of the relations among the various South American countries, and with the United States, Europe, and Asia. See also Political Science 126.

Three one-hour periods per week.

167. The Foreign Relations of the United States 3 units

The foreign policy of the United States in the Nineteenth and Twentieth Centuries; the rise of the United States to a position of world power and the problems and changes growing out of this new position. See also Political Science 128.

Three one-hour periods per week.

168. United States as a World Power 3 units

The emergence of the United States as a major power during the Twentieth Century and the international repercussions of America's developing influence.

Three one-hour periods per week.

171. The United States: Colonial Period 3 units

Political, social, and constitutional history of the United States through the colonial period to 1800.

Three one-hour periods per week.

172. The United States: The Nineteenth Century 3 units

Social, cultural, and political history of the United States from Jefferson's administration to 1898.

Three one-hour periods per week.

174. The United States: The Twentieth Century 3 units

Presents a general survey of political, social, and cultural aspects of United States history from 1898 to the present.

Three one-hour periods per week.

188. History of California 2 or 3 units

The economic, social, intellectual, and political development of California from the earliest time to the present. Two units for the regular class with the possibility of an extra unit by conference.

Two one-hour periods per week.

197. Aids to Historical Research 2 units

A study of the auxiliary sciences. A senior course.

198. History and Historians 2 units

A study of historiography, including intellectual processes by which history is written, the results of these processes, and the sources and development of history. Attention is also given to representative historians. A senior course.

199A-199B. Special Studies in History (year) 2-2 units

An introduction to historical method, followed by individual investigation of selected topics. Required of all history majors. To be taken in the senior year in a field for which specific preparation has been made in the junior year.

254A-254B. Seminar in Modern European History 3-3 units

Studies in specialized periods of European history, with emphasis centering around the early and late Middle Ages.

Prerequisites: Graduate standing, and the completion or concurrent study of History 199A-199B.

281A-281B. Seminar in American History**3-3 units**

Studies in specialized periods of American History with emphasis centering around those subjects and periods for which the most research material is available; the colonial history of the United States; the Civil War period, and the Northwest.

Prerequisites: Graduate standing, and the completion or concurrent study of History 199A-199B.

ECONOMICS**LOWER DIVISION****1A-1B. Principles of Economics (year)****3-3 units**

First semester: Economic organization; the economic laws governing value, price, and the distribution of income; industry relations; the social security system.

Second semester: Money and banking; international trade, finance, and commercial policy; government finance; economic reform.

Three one-hour periods per week.

40. Elementary Statistics (spring)**3 units**

Theory and uses of statistical methods. Practice in tabular and graphical representation of data. Measures of central tendency, relationships, and dispersion. Coefficients, index numbers, time series, and other forms of statistical calculations based on practical relevant data. Use of calculating machines encouraged.

Students taking this course should consult the instructor concerning the adequacy of their mathematical background.

Three one-hour periods per week.

UPPER DIVISION

Prerequisite to all upper division courses in Economics: Economics 1A-1B or consent of the instructor.

105. Consumer Economics**3 units**

A general survey of the economics of consumption in the United States with an analysis of the determination of consumer demands and of the sources of supply.

106. Social-Economic Reform Movements (spring)**3 units**

A historical and comparative survey of Socialism, Communism, Cooperation, and Utopianism, and other systems of reform and reconstruction.

See also Sociology 101.

Three one-hour periods per week.

113. Economics and Social History of the United States (spring)**3 units**

The development of American economic institutions and the interaction between economic factors and the social and political conditions in the United States.

Three one-hour periods per week.

135. Principles of Money and Banking (fall)**3 units**

The nature and function of money and credit; the structure and functions of the most important financial institution in American economic society.

Three one-hour periods per week.

150. Labor Economics (fall)**3 units**

A survey of modern labor conditions, followed by a study of the more specific labor problems related to wages, hours of work, conditions of work, unionism, economic security, and industrial relations.

Three one-hour periods per week.

185. Social Insurance (spring)**3 units**

The causes of insecurity in the industrial system and of society's attempts to cope with the problem. Regularization of employment and other phases of economic planning; unemployment and old age insurance; security against industrial accidents and occupational diseases; health insurance; and public relief. See also Sociology 110A.

Three one-hour periods per week.

188. World Population and Resources (spring)**3 units**

Distribution of the world's population and resources and their relationship in terms of economic welfare; areas of population pressure; measures for economic cooperation in the interests of world peace.

Three one-hour periods per week.

190A. Principles of International Commerce (spring)**3 units**

The theory of international trade; balance of trade and payments; foreign exchanges and foreign trade financing; government control and direction of international trade.

Three one-hour periods per week.

190B. International Economic Policy**3 units**

Tariff and other mechanisms for the control of international trade; the reciprocal trade agreement program; and problems which will be of special importance for world economic reconstruction after the war, i.e., multilateral trade conventions, monetary stabilization, international investment, transport and communication agreements, international cartels and commodity agreements.

Three one-hour periods per week.

201A-201B. Development of Economic Thought**3-3 units**

A year course tracing the development of economic thought from classical times to the present time. Special emphasis will be given to the study of the physiocrats, of the economic philosophy of Adam Smith, of the Malthusian school, of classicism and utilitarianism, of the "National School of Political Economy," of the historical approach to Economics, of the rise of socialism and economic radicalism, and of recent economic doctrines.

Prerequisites: Graduate standing and adequate preparation in Economics.

BUSINESS ADMINISTRATION**LOWER DIVISION****1A. Shorthand I (fall, spring)****4 units**

Introduction to Gregg Shorthand. A thorough study of the Gregg System (Anniversary Edition). Functional principles, penmanship, and phrasing.

Five one-hour periods per week.

1B. Shorthand II (fall, spring)**4 units**

Beginning intensive theory. Development of speed in writing and transcription, particular attention being given to word building that develops new vocabulary. Includes a course in secretarial training and office practice.

Prerequisite: Business Administration 1A or its equivalent.

Five one-hour periods per week.

1C. Shorthand III (fall, spring)**4 units**

An intensive dictation course. This course will include dictation and transcription, covering vocabularies of representative businesses, such as banking law, insurance, retail lumber; advanced dictation on news articles and legal forms.

Prerequisite: Business Administration 1B or its equivalent.

Five one-hour periods per week.

1D. Shorthand IV (fall, spring)**4 units**

Speed building drills, speed building letters, sustained dictation, vocabulary reviews, vocabulary, analysis, word studies, vocational dictation, speed-progression tests—in brief, a systematic speed course for advanced writers.

Prerequisite: Business Administration 1C or its equivalent.

Five one-hour periods per week.

2A. Typewriting I (fall, spring)**2 units**

A skill subject designed to teach the fundamentals of touch typing in the shortest possible time.

Six one-hour periods per week.

2B. Typewriting II (fall, spring)**2 units**

Advanced technique and practice. Stress will be placed upon the prevention of bad habits in typewriting, remedial typewriting, letter writing, carbon copies, addressing envelopes, continuity and rhythm.

Prerequisite: Business Administration 2A or its equivalent.

Six one-hour periods per week.

- 2C. Typewriting III** (fall, spring) **2 units**
Expert typing drills, tabulating, billing, problems involving the working out of real office jobs under office conditions.
Prerequisite: Business Administration 2B or its equivalent.
Six one-hour periods per week.
- 2D. Typewriting IV** (fall, spring) **2 units**
Advanced drills for accuracy and speed; law office typing.
Prerequisite: Business Administration 2C or its equivalent.
Six one-hour periods per week.
- 4. Word Study** (fall) **2 units**
A study of words used in business and industry with special drill on those commonly misspelled.
Two one-hour periods per week.
- 5A-5B. Business Machines** (fall) **1-1 units**
An intensive study of modern office machinery, including adding and calculating machines. The purpose of this course is to train commercial teachers and to meet the demand of present-day business life for skilled operators.
Three one-hour periods per week.
- 12. Bookkeeping** (spring) **3 units**
An introductory course in present-day theory and practice. Designed for those students with an employment objective who desire practical training in bookkeeping.
Three one-hour periods per week.
- 14A-14B. Principles of Accounting** (year) **3-3 units**
First semester: An introduction to the study of accounting. The mechanics of bookkeeping, balance sheet approach, including the general journal, specialized journals, posting, trial balances, columnar working sheets, closing entries, balance sheets, and profit and loss statements.
Prerequisite: Sophomore standing.
Second semester: A study of corporate accounting, the voucher system, accounting for manufacturing, cost accounting, branch-department accounting, nonprofit organizations, accounting for creditor control, analysis and interpretation of financial statements, managerial aspects of accounting.
Prerequisite: B.A. 14A.
Two one-hour lectures and one two-hour laboratory period per week.
- 15. Mathematics of Finance** **3 units**
Presentation of the fundamentals of mathematics used in business transactions. Includes short-cut methods to facilitate rapid calculations, fractions, percentages, insurance computations, equations, simple and compound interest and discount, annuities, etc.
Prerequisite: B.A. 14A-14B or consent of the instructor.
Three one-hour periods per week.
- 18. Business Law** (fall) **3 units**
Historical development of law and its functions with respect to business. Special emphasis on courts and court procedure, law of contracts, and the law of negotiable instruments. Textbook, cases, and lectures.
Three one-hour periods per week.
Prerequisite: At least sophomore standing.
- 21. Business Mathematics** (spring) **3 units**
Designed to give students a workable conception of the fundamental principles of the mathematics of business. The principles and processes of simple and compound interest, simple and successive trade discount, bank discount, and annuities are taught by means of practical problems.
Three one-hour periods per week.

50. Salesmanship (fall)**2 units**

The personality and training of the salesman, sales analysis, interviews, steps in selling, the approach, arousing interest, producing conviction, creating desire, buying motives, closing the sale. Textbook, educational trips, and lectures.

Two one-hour periods per week.

UPPER DIVISION**101. Business Correspondence (fall)****3 units**

The letter in business; telegrams, memorandums, reports, advertising; the art of proofreading.

Prerequisite: English 1A.

Three one-hour periods per week.

105. Dictation and Transcription (fall)**2 units**

Essential points of English, style, and interpretation of 75,000 words of practice material all in shorthand. This course includes extensive dictation. Students are taught to check the spelling or division of every doubtful word and to refuse to transcribe a sentence if it does not "make sense."

Prerequisite: Business Administration 1C or its equivalent.

Six one-hour periods per week.

112. Secretarial Training (spring)**3 units**

The course is based on an activity program making performance in an actual business situation the major objective. A study is made of Form and Follow-up Letters, Telegraphic, Cable, and Radio Service, Banking and Financial Duties, Instruments of Credit, Office Machines and Appliances. Practical secretarial problems involving personality studies and business etiquette; the telephone, transportation, interviewing callers, keeping business calendars; and sources of material on business subjects.

Prerequisite: Business Administration 2B and 101.

Nine one-hour periods per week.

118. Business Law II (spring)**3 units**

A second course in business law with special emphasis on business organization, including partnerships, corporations, and agency; personal and real property, including sales, bailments, mortgages, landlord and tenant, lieu laws; security relations, including conditional sales, suretyships, insurance; trade regulations. Textbook, cases, and lectures.

Prerequisite: B.A. 18.

Three one-hour periods per week.

120. Business Organization (spring)**3 units**

The practical problems of organization, control, and management of private enterprise; and the relation of the government to business; emphasis on instruments and methods of financing.

Three one-hour periods per week.

130. Business Finance**3 units**

The instruments and methods of financing the industrial enterprise. Includes financing methods of the smaller and larger forms of business organization.

Three one-hour periods per week.

133. Personal Finances and Investments (spring)**3 units**

A study of financial institutions and methods of achieving financial security, including borrowing and lending, controlling budgets, investing in securities, buying insurance and annuities, arranging for trust funds, financing home ownership, figuring income tax.

Three one-hour periods per week.

134. Marketing (spring)**3 units**

The organization and management of markets. A survey of the activities involved in transferring manufactured goods and agricultural products from producer to consumer.

Prerequisite: Upper division status.

Three one-hour periods per week.

160A-160B. Advanced Accounting**3-3 units**

Intensive study of the advanced theory of accounts and its application. Textbook, selected problems, and lectures on the various phases of accounting theory and practice. Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B; 160A prerequisite to 160B.

161. Cost Accounting**3 units**

Intensive study of methods used in accounting for product costs. Includes job order system, process system, and standard costs. Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B. B.A. 160A recommended.

162. Auditing**3 units**

Presentation of modern auditing principles and procedures followed in an examination of financial statements. Textbook, selected cases and problems and lectures.

Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B, 160A. 160B is recommended.

GEOGRAPHY**2. Cultural and Regional Geography (fall, spring)****2 units**

The physical environment as the home of man; the adjustments between population groups and the areas where they live; regional differences and their causes.

Two one-hour periods per week.

5A-5B. Introduction to Economic Geography (year)**3-3 units**

A geographic interpretation of man's economic activities. Includes a study of the natural environment and a regional survey of the world's agricultural, industrial, and mineral distribution.

Three one-hour periods per week.

PHILOSOPHY**6A-6B. Introduction to Philosophy (year)****3-3 units**

First semester: An elementary survey of the fundamental concepts and issues in ethics, logic, metaphysics, religion, ontology, and the theory of knowledge. Illustrations are drawn from the philosophical sources, including the philosopher-poets and contemporary writers.

Second semester: A special consideration of the basic problems of philosophy, including historical references to solutions presented in the past.

Three one-hour periods per week.

POLITICAL SCIENCE**LOWER DIVISION****1A-1B. Introduction to Government (year)****3-3 units**

A study of the development, ideology, techniques, organizations and functions of various governments. Comparison and contrast with the government of the United States is stressed. The first semester covers the United States Government while the second semester includes selected foreign governments.

Three one-hour periods per week.

51. American Constitutional Government (spring)**2 units**

A study of the structure, operation, and development of the American constitutional system.

This course meets the requirements in United States Constitution established by the Legislature of California.

Two one-hour periods per week.

UPPER DIVISION**124. International Organizations****3 units**

International unions and commissions of the 19th century; First World War and establishment of the League of Nations; Second World War and formation of the United Nations and other agencies of international cooperation.

Three one-hour periods per week.

- 126. Latin-American International Relations** 3 units
See History 161B.
- 127. International Relations** 3 units
A study of the instruments, techniques, institutions, and problems of international government with stress upon current issues of international diplomacy, including the United Nations.
Three one-hour periods per week.
- 128. Recent Foreign Policy of the United States** 3 units
See History 167.

PSYCHOLOGY**LOWER DIVISION**

- 1. General Psychology** (fall, spring) 3 units
An introduction to the study of human behavior, emphasizing the significance of maturation, learning, motivation, and individual differences as they evolve in personality.
Usually restricted to sophomores.
Three one-hour periods per week.

- 2. Applied Psychology** 3 units
Survey of the areas in which the general principles of psychology are applied, such as medicine, advertising, salesmanship, religion, business and personal relations. Course begins with a short survey of general principles; remainder of semester is devoted to independent supervised study of particular fields of application of student's own choice.

UPPER DIVISION

- 110. Educational Psychology** 2 units
See Education 110.
- 111. Child Growth and Development** 2 units
See Education 111.
- 112. Adolescent Psychology** 3 units
A study of the physical, mental, social and emotional adjustment of the adolescent; ways of diagnosing personality development in relation to his educational and social needs; case method technique for investigating adolescent behavior.
Three one-hour periods per week.

SOCIOLOGY**LOWER DIVISION**

- 1A-1B. Introduction to Sociology** (year) 3-3 units
A study of sociological principles in terms of human relationships and social institutions.
Three one-hour periods per week.

UPPER DIVISION

- Prerequisite to all upper division courses in Sociology: Sociology 1A-1B or consent of instructor.
- 101. Social Economic Reform Movements** 3 units
See Economics 106.
- 102. Methods in Social Work** (fall) 3 units
A study of the technique employed in social case work and the administration of community programs of social welfare; acquaintanceship with the literature in the field; observance of local agencies and institutions.
Three one-hour periods per week.

- 103. Crime and Delinquency** 2 units
Two one-hour periods per week.
- 110A. Social Insurance (spring)** 3 units
(See Economics 185)
- 110B. The Public Assistance Program (spring)** 3 units
The historical development of the social services, with emphasis upon modern programs of public assistance.
Three one-hour periods per week.
- 160. The Family** 3 units
A study of the social development of the family and its contribution to cultural continuity; emphasis upon modern problems of family life and possible solutions.
Three one-hour lectures per week.

GROUP MAJOR

The Group Major has been developed to serve the needs of those students who wish to secure an A.B. Degree which is broadly cultural in character. It provides a "General Education" background for those who wish to pursue a type of professional training which demands a broad rather than a specialized undergraduate program. Many combinations are possible, as the listings below indicate.

The lower division program for a Group Major must include the following:

English 1A-1B	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Natural Science	12 units
(See page 103.)	
Physical Education (including 5 or 15)	2 units
Psychology	3 units
Social Science	12 units
(Including History 70 * and Political Science 51 * and one year course. See page 116.)	
Electives	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B, 74A-74B.)	

The major consists of 36 units in the upper division, distributed among three subject-fields, chosen from the lists of majors and minors on pages 39 and 40 or from subdivisions of those fields, as listed under the various divisions of the curricula. The student following this major may, in consultation with his adviser, arrange the distribution of the 36 units in whatever proportion seems best, subject, however, to the following requirements:

(a) Not less than six upper division units must be taken in each field, together with the lower division prerequisites; the total of upper division units in any one field should not exceed 18.

(b) Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page 39).

(c) Sufficient work must be taken in another field to meet the minimum requirements of the State for a minor (see page 40).

*SUGGESTED GROUP MAJORS

Allied Arts	English	Music
(See page 64)	History	Speech
English	Economics	English
Foreign Language		
Speech	Natural Sciences	Natural Sciences
	Physical Education	Business Administration
English	Social Service	Mathematics
Journalism		
Social Sciences		Social Sciences
		Foreign Languages
Education		Speech-Radio
Social Service		
Home Economics		

* Subject requirement may be satisfied by examination; no unit credit.

HUMBOLDT STATE COLLEGE

DIRECTORY OF PERSONNEL

Administered Through the
STATE DEPARTMENT OF EDUCATION

EXECUTIVE OFFICERS

ROY E. SIMPSON-----Superintendent of Public Instruction and Director of Education
AUBREY A. DOUGLASS-----Associate Superintendent of Public Instruction
JOEL A. BURKMAN-----Assistant Director of Education

STATE BOARD OF EDUCATION

WILLIAM L. BLAIR, *President*-----Pasadena
BYRON H. ATKINSON-----Glendale
EUGENE T. BRODERICK-----San Francisco
RALPH T. FISHER-----Oakland
C. J. HAGGERTY-----San Francisco
MRS. E. T. HALE-----San Diego
GILBERT H. JERTBERG-----Fresno
JOSEPH P. LOEB-----Los Angeles
FRED W. SMITH-----Ventura
MRS. E. K. STRONG-----Stanford University

COLLEGE ADMINISTRATIVE OFFICERS AND ASSISTANTS

Arthur S. Gist	President
Homer P. Balabanis	Vice President and Dean of Arts and Sciences
Ivan C. Milhous	Dean of Professional Education
Harry E. Griffith	Dean of Student Personnel and Guidance Director of Elementary Education and Principal of College Elementary School
Albert D. Graves	Director of Secondary Education
Eugenia C. Loder	Dean of Women and Director of Health
Myrtle M. McKittrick	Registrar
Jessie T. Woodcock	Comptroller
Helen A. Everett	Librarian
Floyd Erickson	Senior Librarian
Dean Galloway	Junior Librarian
	Head Resident, Women's Section, Nelson Hall
Hyman Palais	Head Resident, Redwood Hall
Harry L. Jenkins, M.D.	College Physician
Noah A. Stromberg, Robert Bryan, and Leland Domeyer	College Dentists
Edna Vincent	Secretary to the President
Evelyn M. Plunkett	Assistant Registrar
Rupert Bauer	Graduate Manager and Comptroller of Student Accounts
Beryl Jenkins	Secretary to Principal of College Elementary School
Delta Brown	Secretary to the Faculty
Carolyn Merryman, Kathleen Sawyer, Bernice Cohen, Geraldine Williams	
	Clerical Assistants
Fred Ogilwy	Supervisor of Buildings and Grounds

DIVISIONAL CHAIRMEN, 1947-48

Division of Fine and Applied Arts	Don W. Karshner (Chairman)
Division of Health and Physical Education	Harold A. Bishop (Chairman)
Division of Language and Literature	Maurice Hicklin (Chairman)
Division of Natural Sciences	Harry D. MacGinitie (Chairman)
Division of Social Sciences	Kenneth P. Bailey (Chairman)

VETERANS' CENTER

James O. Booker	Vocational Adviser, and Chief, Guidance Center, Humboldt State College
Michael Chetkovich	Training Officer

HUMBOLDT STATE COLLEGE IMPROVEMENT ASSOCIATION

An incorporated body to obtain necessary property for the State and
to serve in an advisory capacity for the College

J. J. Krohn, President
Arthur S. Gist, Secretary

Charles R. Barnum
S. D. Cerini

Chester Connick
Vernon L. Hunt

Gordon Manary
Robert W. Matthews

FACULTY COMMITTEES—1947-48**Administrative Council**

President Gist, Chairman
 Dr. Balabanis
 Mr. Griffith
 Dr. Loder
 Dr. Milhous
 Mrs. McKittrick

Health

Dr. Loder, Chairman
 Mr. Griffith
 Dr. MacGinitie
 Dr. Palais
 Miss Lyddane

Recreation and Social Life

Miss Fleming
 Mr. Roberts
 Miss Dickson
 Miss Cornelius

Admissions

President Gist
 Mrs. McKittrick
 Mr. Griffith
 Dr. Balabanis

Honor Awards

President Gist
 Miss Johnson
 Mrs. McKittrick
 Dr. Balabanis
 Dr. Milhous

Scholarship

Miss Platt, Chairman
 Dr. Balabanis
 Miss Dickson
 President Gist
 Miss Johnson
 Mrs. McKittrick
 Mr. Arnold

Assembly

Mr. DeLay, Chairman
 Mr. Karshner
 President Gist
 President Student Body

Library

Dr. Balabanis, Chairman
 Dr. Bailey
 Mrs. Everett
 Dr. Milhous
 Mr. Bishop
 Mr. Hicklin
 Mr. Karshner
 Dr. MacGinitie

Student Personnel

Mr. Griffith, Chairman
 Mrs. McKittrick
 Dr. Loder
 President Gist

FACULTY

GIST, ARTHUR S., M.A.

PRESIDENT

B.Ed., M.A., University of Washington; additional graduate study, University of California, Columbia University. Director Teacher Training, San Francisco State Teachers College; Summer Session Faculty, University of Washington, University of Utah, George Peabody College for Teachers, University of California, University of Southern California, University of Texas, Syracuse University. Author: "Elementary School Supervision"; "Administration of an Elementary School"; "Clarifying the Teacher's Problems"; "Administration of Supervision"; "The Teaching and Supervision of Reading" (co-author); "New Stories from Eskimo Land" (co-author). Editor of Yearbooks, Department of Elementary School Principals, National Educational Association.

ARNOLD, HOMER L., M.A.

PROFESSOR OF MATHEMATICS AND PHILOSOPHY

B.S., Indiana State Teachers College (Eastern Division); A.B., University of Indiana; M.A., University of Chicago; additional graduate study, University of Chicago, Stanford University, University of Michigan. Head of Department of Mathematics, Central High School, Elkhart, Indiana; teacher of mathematics, Central High School, Kalamazoo, Michigan, and Central Union High School, Calumet-Laurium, Michigan; Head of Department of Education and Psychology, New Mexico State Teachers College. Member American Mathematical Society.

BAILEY, KENNETH P., Ph.D.

ACTING DEAN OF STUDENT PERSONNEL AND GUIDANCE
AND ASSOCIATE PROFESSOR OF HISTORY

A.B., M.A., and Ph.D., University of California at Los Angeles. Teaching Assistant and Instructor in History, University of California at Los Angeles. Chairman Social Science Department and Director of Guidance, Oceanside Junior College. Author: "The Ohio Company of Virginia: A Chapter in the History of the Colonial Frontier" and "American Institutions in Critical Times." Winner of Pacific Coast Branch of American Historical Association award for best book by Pacific Coast Writer in field of American History in 1939.

BALABANIS, HOMER P., Ph.D.

VICE PRESIDENT, DEAN OF THE SCHOOL OF ARTS
AND SCIENCES AND PROFESSOR OF ECONOMICS

Ph.B., M.A., University of Chicago; Ph.D., Stanford University. Assistant, School of Commerce and Administration, University of Chicago; Teaching Assistant, Department of Economics, Stanford University; Summer Session Faculty, San Jose State College, Fresno State College, Miami University (Ohio); Director of Summer Session, Humboldt State College. Senior Economist, Office of Price Administration, Washington, D. C., 1943; Principal Divisional Assistant, Economic Affairs, Department of State, 1943-1944. Author: "The American Discount Market," "Travel Sketches of Europe." Contributor to "Encyclopedia Americana" and "Americana Annual."

BARLOW, LELAND, M.A.

ASSISTANT PROFESSOR OF MUSIC

Mus.B., Oberlin Conservatory; M.A., State University of Iowa. Instructor in music, Dakota Wesleyan University; instructor in voice, choral work and choral conducting, Oberlin Conservatory of Music; U. S. N. R., 1942-1946. Director "Meet Your Navy" choir and "Bluejacket Choir" on weekly coast-to-coast broadcasts.

BRUNER, JOYCE, A.B.

ASSISTANT IN MUSIC

A.B., Humboldt State College; graduate study, University of Southern California; elementary school music instructor, Fortuna Public Schools.

BUCHANAN, KATE, M.A.

ASSISTANT PROFESSOR OF ENGLISH

A.B., University of Oregon; M.A., Washington State College; Graduate study, Columbia University. Teacher of English and Speech, Roseburg Senior High School, Oregon; Head Resident, Girl's Dormitory, University of Oregon; University Summer Employment Office, Portland, Oregon; Dean of Women and teacher of English and Speech, Lewis and Clark College, Portland, Oregon; Assistant Director, U.S.O., Salt Lake City, Utah; Supervisor Women's Housing, Women's Counselor, du Pont War Project, Hanford, Washington; Instructor in English, University of Oregon.

BULLEN, NEWELL REESE, M.A.

ASSISTANT PROFESSOR OF ART

A.B., Utah State Agricultural College; M.A., Stanford University; Certificate of Completion, University of Paris. Lt. Col., U. S. Army.

CORNELIUS, SARAH R., M.A.

ASSISTANT PROFESSOR OF EDUCATION

Ed.B., U. C. L. A.; M.A., Columbia University. Classroom teacher, South Pasadena, California; Lower Merion, Pennsylvania; New York City. Supervisor Student Teaching, State Teachers College, California, Pennsylvania; Principal, Roosevelt School, Lancaster, California; Principal, Center Street School, Manhattan Beach, California.

DELAY, THEODORE S., JR., M.A.

ASSISTANT PROFESSOR OF SPEECH AND RADIO

A.B., Carnegie Institute of Technology; M.A., University of Southern California; Graduate of U. C. L. A.-N.B.C. Radio Institute; additional graduate study at the University of Michigan and Denver University. Program Manager, Radio Station WBRV, New Haven, Connecticut; Instructor, Sanger Union High School, Sanger, California; Personnel Services and the Armed Forces Radio Services, A.A.F., 1942-1946.

DICKSON, BELLE L., M.A.

ASSISTANT PROFESSOR OF EDUCATION

Graduate, Cheney State Normal School, Cheney, Washington; A.B., University of Washington; M.A., University of Chicago; additional graduate study, University of Chicago, University of Washington. Teacher in elementary schools; teacher of Geography and Elementary Science, platoon school, Spokane, Washington. Author: "Plans and Activities for the Primary Grades," "Activities in Progressive Education."

EVERETT, HELEN A., M.A.

LIBRARIAN

A.B., University of Oregon; Certificate of Librarianship and M.A., University of California. Teacher in Bandon and Eugene high schools, Oregon, and University of Oregon; Library assistant, Universities of Oregon and California; Acting Librarian, Southern Oregon College of Education; Librarian, Marshfield High School, Oregon; School Library Supervisor, Medford, Oregon.

FLEMING, MARGARET D., M.A.

ASSISTANT PROFESSOR OF EDUCATION

B.Ed., Duluth State Teachers College; M.A., Iowa University; Graduate work, University of Minnesota; Teaching Fellowship, Iowa University; Graduate research scholarship, University of Chicago; Elementary Teacher, Minnesota and Missouri; Supervisor, Eastern Illinois State Teachers College, Eastern Washington College of Education; Teacher, English speaking school, Caracas, Venezuela, 1945-1946.

FORBES, JOSEPH, A.B.

ASSISTANT PROFESSOR OF PHYSICAL EDUCATION

A.B., Occidental College; graduate work, Occidental College and University of Southern California; advanced corrective work at Los Angeles Orthopaedic Hospital. Assistant track coach, Occidental College; high school football and basketball coach; coach, Compton Junior College.

FULKERSON, CHARLES, A.B.

ASSISTANT PROFESSOR OF MUSIC

A.B., San Jose State College; graduate study, University of Southern California. Piano study under Benning Dexter, John Crown, Alice Ehlers.

GOODIN, ADDIE LOU, B.S.

ASSISTANT PROFESSOR OF HOME ECONOMICS

B.S., College of St. Catherine; Graduate study, University of Minnesota, University of California at Los Angeles, University of California; Instructor in home economics, Montebello, Pescadero, and Los Angeles High Schools.

GRIFFITH, HARRY E., M.A.

PROFESSOR OF EDUCATION

Ed.B., University of California at Los Angeles; M.A., University of California at Berkeley; additional graduate study at Claremont Colleges, University of Southern California and Stanford University. Instructor in Physical Education, Central Junior High School, Riverside, California; Instructor in Physical Education and Head of Department, Riverside Junior College and High School; Summer Session Instructor in Physical Education, University of California at Los Angeles. U. S. Army, Major, Director of Normal Schools and Teacher Training in Japan.

GUYER, BYRON C., JR., M.A.

ASSISTANT PROFESSOR OF ENGLISH

A.B., San Diego State College; M.A., University of California; additional graduate study, University of California and Stanford University. Instructor in English, Exeter High School, A to Zed School, Berkeley; Stanford University.

HICKLIN, MAURICE, M.A.

PROFESSOR OF ENGLISH

A.B., University of Missouri; B.J., School of Journalism, University of Missouri; M. A., Stanford University, Graduate teaching assistant, University of Missouri; Instructor, University of Washington; graduate teaching assistant, Stanford University; Summer Session Faculty, University of California at Los Angeles.

HOLLIDAY, EDITH

ASSISTANT IN MATHEMATICS

A.B., Fresno State College; graduate study, University of Southern California. Elementary teaching and private coaching in mathematics.

HOLLIDAY, JAY N., M.S.

ASSISTANT PROFESSOR OF EDUCATION

B.Sc., M.S., University of Southern California. Additional graduate study, University of Nebraska College of Medicine, University of Colorado, and University of Southern California. Elementary and high school teacher and administrator, instructor in psychology, Brawley and Reedley Junior Colleges. Co-author, "Personality and Life"; Captain, A.A.F.

JACKSON, WILLIAM F., M.B.A. ASSISTANT PROFESSOR OF BUSINESS ADMINISTRATION

B.S., M.B.A., University of California; teaching assistant, Department of Business Administration, University of California; member Beta Alpha Psi, Phi Beta Kappa, and Beta Gamma Sigma.

JEFFERS, HAZEL, B.Mus.

ASSISTANT PROFESSOR OF MUSIC

B.Mus., Illinois Wesleyan University. Student of Piano under Edmund Munger. Music and Art Supervisor in East McKeesport, Pennsylvania; Secretary, International Congress on Education for Democracy, Columbia University; graduate study, University of Southern California.

JENKINS, R. HORACE, M.S.

PROFESSOR OF INDUSTRIAL EDUCATION

B.S. and M.S., Oregon State College; Graduate, Central State Teachers College, Oklahoma, four-year Classical Course and three-year Art and Shop Course; additional study, Oswego State Normal School, University of California, University of Chicago, Columbia University, Stanford University. Assistant in Art, Oklahoma State Teachers College; practical experience in trades and industries; experience as owner and manager of a commercial pottery shop.

JOHNSON, ADELLA, M.A.

ASSOCIATE PROFESSOR OF MODERN LANGUAGES

A.B., University of Minnesota; M.A., University of Washington; additional graduate study, University of Washington, Stanford University, Columbia University, University of Minnesota, University of California, Casa Panamericana, Mills College, University of Paris, France. Travel in Europe with Intercollegiate French School; travel in Mexico. Teaching Fellow in French, University of Washington; Department Head, Foreign Languages, State Teachers College, Spearfish, South Dakota.

KARSHNER, DON W., A.B.

ASSISTANT PROFESSOR OF SPEECH

A.B., Washington State College; graduate study, Washington State College, Stanford University. Teacher in public secondary schools at Aberdeen and Seattle, Washington; Teaching Fellow in Stanford Language Arts Investigation; Instructor, Menlo School and Junior College, Menlo Park, California. Educational Services, U. S. Navy, 1943-1945.

LANPHERE, WILLIAM M., Ph.D.

ASSOCIATE PROFESSOR OF BIOLOGICAL SCIENCES

B.S., M.S., and Ph.D., University of Washington. Teaching Fellow and Associate in Biological Science, University of Washington; Instructor, Western Washington College of Education.

LEWIS, JOHN H.

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES

B.S., Oregon State College; graduate study, Oregon State College. Employed by U. S. Wildlife Service, in rodent control, and as Junior Refuge Manager, Malheur Lake Migratory Waterfowl Refuge. Lieutenant, U.S.N.R.

LODER, EUGENIA C., Ed.D.

DEAN OF WOMEN AND ASSOCIATE PROFESSOR OF EDUCATION

B.S., University of Washington; M.A. and Ed.D., Stanford University. Playground director, supervisor of girls physical education, elementary and high schools, Seattle and Palo Alto. Study and travel in Europe. State Director, California Division, American Association of University Women; Vice President, Palo Alto Council, P.T.A.; Teaching Assistant, School of Education, Stanford University; President, Palo Alto Board of Education.

LYDDANE, BARBARA, M.A.

ASSISTANT PROFESSOR OF PHYSICAL EDUCATION

B.S., George Washington University; M.A., Mills College; Special Study, Martha Graham June Course in Modern Dance, New York; Playground Director, Recreation Department, Washington, D. C.; Dance Instructor, St. Cecilia's School, Washington, D. C., Convent of Sacred Heart, Washington, D. C., Teaching Fellow, Mills College.

MACGINITIE, HARRY D., Ph.D.

PROFESSOR OF PHYSICAL SCIENCES

A.B., Fresno State College; Ph.D., University of California. Member of Sigma Xi, Geological Society of America, National Research Council; Associate Geologist, United States Geological Survey; Research Associate in Paleobotany, Carnegie Institution, Washington, D. C. Author: "The Trout Creek Flora of Southeastern Oregon," "Fossil Flora and Geology of the Weaverville Beds in Trinity County, California," and "A Middle Eocene Flora from the Central Sierra Nevada." A.A.F. (First Lieutenant) 1943-1945.

McKITTICK, MYRTLE M., A.B.

REGISTRAR

A.B., Willamette University; graduate study, University of Washington. Experience as high school teacher, principal and secretary. Author: "Vallejo, Son of California."

MILHOUS, IVAN C., Ph.D.

PROFESSOR OF EDUCATION AND DEAN OF THE SCHOOL OF EDUCATION

A.B., Penn College; M.A., Haverford College; Ph.D., State University of Iowa. Teaching assistant in German, Penn College; High School Principal, Saint Anthony Consolidated School; Superintendent of Schools, Argyle Consolidated School, Donnellson Public Schools; instructor in Education, Iowa Wesleyan College; Graduate Assistant in Education, University of Iowa; Head, Department of Education and Psychology and Director of Teacher Training, Oregon College of Education, Monmouth, Oregon; Acting State Supervisor of Elementary Education, State of Oregon.

PALAIS, HYMAN, Ph.D.

ASSISTANT PROFESSOR OF HISTORY

A.B., M.A., Ph.D., University of California at Los Angeles. Teacher in junior and senior high schools; teaching assistant, University of California at Los Angeles; Assistant Professor, South Dakota School of Mines and Technology, California Polytechnic College.

PEITHMAN, ROSCOE E., M.S.

ASSISTANT PROFESSOR OF PHYSICAL SCIENCE

B.Ed., Southern Illinois Normal University; M.S., University of Illinois. Instructor, Illinois high schools; Lieutenant, U.S.N.R.; Coordinator W.T.S. Pilot Training Program, Salem, Illinois; Air Navigator; Engineering Officer, Link Celestial Navigation Trainer and Instructor in Navigation; Flight Instructor; officer in charge of Electronic Navigation, N.A.A.S., Alameda. Graduate United States Naval Air Navigation School, Hollywood, Florida, and Electronic Navigation School, N.A.A.S., Banana River, Florida.

PLATT, IMOGENE B., M.A.

ASSISTANT PROFESSOR OF BUSINESS ADMINISTRATION

A.B., M.A., University of Washington; graduate work, Stanford University. Registrar, Humboldt State Teachers College.

ROBERTS, BRUCE J., M.A.

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES

A.B., San Francisco State College; M.A., Stanford University. Teacher in elementary, junior high, and senior high schools. United States Marine Corps Reserve, 1943-1945.

ROSCOE, CHARLES, B.S.

ASSISTANT IN MATHEMATICS

B.S., University of Oklahoma; member American Society of Civil Engineers, Tau Beta Pi and Sigma Tau. Ensign, U.S.N.R., Civil Engineering Corps.

TELONICHER, FRED, A.B.

ASSOCIATE PROFESSOR OF BIOLOGICAL SCIENCE

A.B., Fresno State College; graduate study, Stanford University; European travel.

VAN DUZER, JOHN, M.A.

ASSISTANT PROFESSOR OF SPEECH AND DRAMA

A.B., Humboldt State College; M.A., University of Southern California; Diploma in Piano, College of the Pacific; Study at Eastman School of Music, Rochester, New York, two years; study in stage design at Eastman Theater, Rochester, New York; graduate study; Stanford University. United States Army, 1942-1943.

WILSON, BERT F., M.A.

PROFESSOR OF BUSINESS ADMINISTRATION

B.D., B.S., M.Accts., (Iowa); Shorthand Teachers Certificate, Gregg College, Chicago; Teaching Certificate, American Institute of Filing, Buffalo, New York; M.A., Stanford University; member Stanford Chapter, Phi Delta Kappa; Graduate study, University of California, University of Southern California, and University of Washington. Principal, Shenandoah Commercial Institute, Shenandoah, Iowa; principal, California Secondary Schools; 10 years' experience as a bank cashier.

WOMACK, THURSTON, A.B.

ASSISTANT IN ENGLISH

A.B., Humboldt State College; graduate study at Stanford University. United States Army, 1942-1946.

PART-TIME INSTRUCTORS

BARLOW, KATHRYN C., M.A.

ASSISTANT PROFESSOR OF SPANISH

A.B., M.A., Oberlin College; Certificate of Graduation, University of Bordeaux, France; graduate study, University of Wisconsin, University of Mexico, University of New Mexico. High school teaching in English; instructor in French and Spanish, Lincoln College and Oberlin College.

DREYER, CHARLES J., A.B.

INSTRUCTOR IN INDUSTRIAL EDUCATION

A.B., University of California; California Special Credential in Vocational Arts.

GRIFFITH, ESTHER BEED

INSTRUCTOR IN VIOLIN

Certificate in Theory and Violin, (4 years) Yale University School of Music. Studied violin under Richard Schlieven, Reginald Bland, Russell Keeney, and Hugo Kortschak; studied one year in Italy with Lena Fagioli; studied string ensemble with Emmeran Stoeber. Played with New Haven, San Diego, and Chicago Women's Symphony Orchestras.

JACKSON, ROWENA FAYE

INSTRUCTOR IN PIANO

Studied piano and harmony with Katherine A. Rood and Hans Bruening; studied pipe-organ, piano and composition with Dr. Clarence E. Shepard; graduate Grafton Hall School of Music. Graduate teacher in normal methods in piano and harmony, Carroll College; for 10 years assistant to Dr. Clarence Shepard at Grafton Hall with classes accredited at University of Wisconsin in piano, harmony, history of music and music analysis; teacher of private classes in piano, pipe-organ, harmony.

YOUNG, LEVI S., A.B.

ASSISTANT IN SCOUTING

A.B., Arizona State College; Summer courses, University of California, Los Angeles. Graduate Eighty-seventh National Training for Scout Executives.

COLLEGE ELEMENTARY SCHOOL

HARRY E. GRIFFITH, Principal and Director of Elementary Education

HAGNE, HAZEL, A.B.

SUPERVISING TEACHER

A.B., Humboldt State College; graduate study, University of California and Columbia University.

HAYES, SUSAN W., A.B.

SUPERVISING TEACHER

A.B., Humboldt State College; additional study, Oregon State College; elementary teacher, Worthington School.

KELLENBERGER, ELEANOR, A.B.

ASSISTANT SUPERVISOR

A.B., Humboldt State College; graduate study, University of California at Los Angeles.

MELENDY, WARD, A.B.

SUPERVISING TEACHER

A.B., Humboldt State College; post graduate work, Humboldt State College. Teacher, Elementary and High School; adult literacy classes; summer recreational program, City of Eureka.

INDEX

- A.B. Degree (see Bachelor of Arts degree)
- Academic calendar, 4-5
- Academic honors (see Scholastic honors)
- Academic regulations, 27-30
- A cappella choir, 18, 78
- Accounting courses (see Commerce courses)
- Accredited, 25
- Activities (see Extra-curricular activities)
- Administration credentials, 37, 61
- Administrative officers, 131
- Admission to the College, 23-26
- Adolescent Psychology, 128
- Advanced standing (see Admission to the College)
- Advisers, 19
- Agriculture, 41
- Agricultural Economics, 41
- Animal Science, 41
- Plant Science, 42
- Algebra, 38, 114
- Allied Arts, 64
- Alpha Psi Omega, 15
- Alumni Association, 21-22
- American Government, 127
- Required of A.B. Degree candidates, 38-39
- Anatomy, 109
- Annette Parton Johnson Scholarship, 33
- Anthropology, 107
- Applied Psychology, 128
- Aptitude Test (see College Aptitude Test)
- Arcata Kiwanis Award, 36
- Arcata Rotary Club Scholarship, 33
- Art, 64
- A.B. Degree in, 64
- Special Secondary Credential in, 65
- Description of courses, 66-67
- Major and minor, 66
- Arts and Sciences, 63-129
- Associate of Arts (University of California), 41
- Associated Business Girls Award, 34
- Associated Students, 15
- Associated Women Students, 15
- Athletics, 17
- Auditors, 31
- Auditing, course in, 127
- Audi-Visual Education, 59
- Awards (see scholarships and monetary awards)
- BACHELOR of Arts degrees, 37-40
- General requirements, 38-40
- Bacteriology course, 108
- Band, 78
- Biology courses, 108
- Minor, 107
- Board of Control of Student Body, 15
- Bookstore, 15
- Botany courses, 108, 109
- Minor, 107
- Breeding pens, 10
- Buildings, 10, 11
- Business Administration,
- A.B. Degree, in, 37, 118
- Description of courses, 124-127
- Major, 118
- Minor, 120
- Business and Professional Women's loan, 36
- Business education curriculum, 118
- CALENDAR 1947-48,
- Academic calendar, 4, 5
- California, history of, 122
- California Congress of Parents and Teachers Scholarship, 35
- Chemistry, 112
- Chi Sigma Epsilon, 15, 33, 34, 36
- Community Relations, 21
- Community Service, 21
- Cost Accounting, 127
- Counseling, 19
- Course numbering, 47
- Course of Instruction, 46
- (See also listing in Table of Contents)
- Explanatory note, 47
- Craig scholarships, 34
- Creative writing award, 36
- Credentials, 37, 50-57, 63, 65, 68, 75, 79, 86, 88, 96, 103, 116
- Administration and supervision, 37, 61
- Combinations of, 55
- Elementary, curriculum for, 54
- General requirements, 51-54
- General statement, 50
- Junior high school, curriculum for, 55
- Kindergarten-Primary, curriculum for, 54, 55
- Required courses tabulated, 53-55
- Residence requirement, 38, 51
- Secondary General, 37, 51, 56-57, 86, 88, 96, 103, 116
- Special Secondary in
- Art, 65,
- Home Economics, 68
- Music, 75
- Physical Education, 79
- Curricula, 37-45
- Degree, 37-38
- Lower Division, 40-45, 65, 71, 93, 120
- DEANS of
- Arts and Sciences, 46, 131
- Education, 46, 131
- Students, 46, 131
- Men, 46, 131
- Women, 46, 131
- Degree curricula classified, 37-38
- Bachelor of Arts, 37-40
- Art, 64
- Biological Sciences, 104
- Botany, 105
- Economics and Business Administration, 37
- Education, 50-57
- English, 96-98
- General requirements for, 38
- Group major, 129
- History, 118
- Home Economics, 68, 69
- Music, 74-76
- Physical Education, 86-88
- Pre-Medical Sciences, 90
- Social Sciences, 116-118
- Social Service, 118
- Speech, 79-80
- Speech-English, 80
- Speech and Dramatics, 81
- Speech-Radio, 81
- Wildlife Management, 106
- Zoology, 105
- Degrees (see Bachelor of Arts, degree curricula)

- Divisions, 46
 - Fine and Applied Arts, 64
 - Health and Physical Education, 86
 - Language and Literature, 96
 - Natural Sciences, 103
 - Social Sciences, 116
- Divisional chairmen, 131
- Directory of personnel, 130-137
- Disqualification from College, 30
- Drafting, 71
- Dormitory, 10, 12, 13, 14
- Dramatics (see Speech and Dramatics)
 - Dramatic activities, 18
 - Dramatic workshop, 18, 82, 84
 - Dramatics fraternity (see Alpha Psi Omega)
- ECONOMICS
 - A.B. Degree in Economics and Business Administration, 37
 - Description of courses, 123-124
 - Major, 119
 - Minor, 120
- Education, 50-62
 - Description of courses, 58-62
 - (See also Credentials)
- Electronics, 113
- Elementary Credential (see Credentials)
- Employment service, 32
- (See also Placement service)
- Engineering: courses, 113
- English, 84-87
 - A.B. Degree in, 96-98
 - Description of Courses, 98-101
 - Major, 98
 - Minor, 98
- Enrollment in classes (see Class enrollment)
 - In the college (see Registration)
- Executive Committee of Student Body, 15
- Expenses (see Living accommodations, Fees)
- Extension courses, 21
- Extension credit, 24, 29-30, 62
- FACULTY committees, 132
- Faculty personnel, 133-137
- Faculty Women's gift, 36
- Far Western Conference, 17
- Fees: occasional, required, student body, summer session, 31, 32
- Fine and Applied Arts, 64
- Fish hatchery, 10
- Foreign languages (see Modern languages)
- French, 101-102
 - Description of courses, 101-102
 - Minor, 101
- Freshmen Assemblies, 4-5
- Fundamentals. Teacher Training, 51-52
- GI Wives Club, 15
- Game Bird Propagation, 171
- General major (see Group major)
- General Regulations (see Academic Regulations)
- General Secondary Credentials (see Credentials, Secondary)
- Geography courses, 127
- Geology course, 112
- Geometry (Plane), 38, 114
- Glaser, Bell W., Scholarship, 34
- Glee clubs (see College Chorus)
- Grades, 27
- Graduate Manager, 15
- Graduate Nurses, 92
- Graduation honors, 33
- Graduation requirements (see Bachelor of Arts, Bachelor of Education)
- Group major, 37, 64, 129
- Gymnasium, 10
- HATCHERY (see Fish hatchery)
- Health and Hygiene, 92-95
 - Description of courses, 94-95
 - Junior high school major, 94
 - Minor, 94
- Health examination, 19, 51
- Service, 19
- Henry F. Brizard Memorial Scholarships, 34, 35
- Hispanic America, course in, 122
- History, 118, 121-123
 - A.B. Degree in, 118
 - Description of courses, 121-123
 - Junior high school major, 119
 - Minor, 119
- Home Economics, 68-71
 - A.B. Degree in, 68
 - Description of courses, 69-70
 - Junior high school major, 69
 - Minor, 69
 - Special Secondary Credentials in, 68
- Honor points, 28
- Honors (see Scholastic honors)
- Hospitalization, 19, 31
- Housing, 14
- Humboldt County Federation of Women's Clubs scholarships, 35
- Humboldt State College Improvement Association, 131
- Humboldt State Ski Club, 15
- Hygiene (see Health and Hygiene)
- INDEX of Scholarship (see Scholarship index)
- Industrial Education, 71-74
 - Description of courses, 72-74
 - Junior high school major, 72
 - Minor, 72
- International Relations, 128
- Intramural Sports, 17
- Iowa Silent Reading Test, 4, 5
- JOHNSON, Annette Parton Scholarship, 33
- Journalism, 101
- Junior High School Credential (see Credentials)
- Junior High School majors
 - Art, 66
 - Home Economics, 69
 - Industrial Arts, 72
 - Music, 75
 - Speech and Dramatics, 81
 - Physical Education, 88
 - Health and Hygiene, 94
 - English, 98
 - Biology, 106
 - Economics, 119
 - History, 119
 - Social Sciences, 119
- KINDERGARTEN-Primary Credential (see Credentials)
- Kiwanis Club Award (see Arcata Kiwanis Club Award)
- Kuder Vocational Preference Test, 4, 5
- Languages (see Modern Languages)
- Language and Literature Division of, 84
- Latin-American Relations, 126
- Legal Aspects of Education, 58
- Library, 11
- Librarianship, 44
- Living accommodations, 14
- Loan funds, 36
- Location of the College, 10
- Lower division courses, 47

- Lower division curricula (see Curricula)
 Agriculture, 41
 Business Education, 118
 Drafting, 71
 Photography, 65
 Pre-Agriculture, 41
 Pre-Architecture, 42
 Pre-Dental, 42
 Pre-Engineering, 43
 Pre-Forestry, 43
 Pre-Legal, 44
 Pre-Library Science, 44
 Pre-Mortuary Science, 44
 Pre-Nursing, 92-93
 Pre-Optometry, 45
 Pre-Pharmacy, 45
 Pre-Veterinary, 45
 Secretarial Training, 120
 "Lumberjack," 16
- MAJORS, defined and listed, 39
 Marking system, 27
 Mathematics, 114-115
 Description of courses, 115-116
 Minor, 114
 Matriculation from high school (see Admission to the College)
 To other institutions (see Transfer to other institutions)
 Men's Association, 15
 Scholarship, 35
 Men's Athletics, 17
 Meteorology course, 113
 Military Service, credit for, 24
 Minors, defined and listed, 39-40
 Miscellaneous Awards, 36
 Modern Dance Group, 15
 Modern languages, 101, 102
 Description of courses, 101, 102
 Minors, 101
 Mu Epsilon Psi, 16
 Music, 74-79
 A.B. Degree in, 74
 Activities, 18, 78, 79
 Description of courses, 76-79
 Majors, 74-75
 Minors, 76
 Private Lessons, 79
 Scholarships, 34, 35
 Special Secondary Credential in, 75
 Musical organizations, 78, 79
 A capella choir, 78
 Band, 78
 College chorus, 78
 Orchestra, 78
 Musicians' Scholarship, 35
- NATURAL sciences, 103
 Nelson Hall, 11, 12, 14
 Newman Club, 16
 Normal program, 28
 Note to prospective student, 8-9
 Numbering of courses (see Explanatory note)
 Nursing (see Pre-Nursing and Graduate Nurses)
 Nutrition, courses in, 70
- OBJECTIVES, 50, 63, 86, 96, 103, 116
 Officers and assistants, 131
 Official directory (see Directory of Personnel)
 Ohio Psychological Examination, 4, 15
 Orchestra, 78
 Orientation, 78
 Organization of College, 46
- P. T. A. Scholarships, 35
 Paleontology course, 109
 Personnel (see Directory of Personnel)
 Phi Beta Kappa medal, 36
 Philosophy course, 127
 Photography courses, 67
 Two-year terminal curriculum, 65
 Physical Education, 86-95
 A.B. Degree in, 86-88
 Club, 16
 Description of courses, 89-92
 Major, 88
 Minor, 88
 Physical education credential (see Credentials)
 Physical examination (see Health Examination)
 Physical science courses, 112-113
 Physics courses, 112, 113
 Physiology course, 109
 Placement service, 21
 Play Writing, 72, 73
 Political science courses, 127
 Practice teaching (see Student teaching)
 Pre-Professional courses (see Lower Division Curricula)
 Pre-Medical Curriculum, 105
 Pre-Nursing Program, 93
 Pre-Nursing Scholarship, 33, 35
 Private lessons (music), 79
 Probation, 30
 Program, Changes of, 29
 (See also Normal program)
 Psychology courses, 128
 Public Health Certificate, 93
 Publications, Student, 16
- QUANTITATIVE Analysis course, 112
- RADIO,
 A.B. Degree in, 81
 Courses, 82-85
 Programs, 18, 19
 Recreation, 16-18
 Redwood Hall, 14
 Refunds, 21
 Registration in classes (see Class enrollment)
 In the College, 26
 Regulations (see Academic regulations)
 Reports to students, 29
 Residence requirements 38, 51, 62
 Rho Sigma, 16, 33
 Rotary Club loan fund, 36
 Rotary Club Scholarship, 33
- SCHEDULE of classes, 48
 Scholarship index, 28
 For credential candidates, 52
 For degree candidates, 40
 For students transferring to Humboldt, 24
 (See also Probation and Disqualification)
 Scholarship reports (see Reports to students)
 Scholarships and monetary awards, 36
 Scholastic honors, 33
 Science (see Natural sciences)
 Scout Leadership, 89
 Secondary Credential (see General Secondary Credential)
 Secretarial Training curriculum, 120
 Self help (see Student employment service)
 Semester honors, 28
 Semester unit (see Unit of credit)
 "Sempervirens," 16
 Sequoia Music Club Loans, 36
 Ski club (see Humboldt State Ski Club)
 Social-Economic Reform Movements course, 123
 Social life, 16
 Social Sciences, 116-129
 A.B. Degrees in, 116-119
 Description of courses, 121-129
 Majors, 116-119
 Minors, 120

- Social Service Curriculum, 118
- Societies, 15, 16
- Sociology Courses, 128-129
- South Fork P. T. A. Scholarship, 35
- Spanish courses, Minor in, 102
- Special Secondary Credentials in
 - Art, 65
 - Home Economics, 68
 - Music, 75
 - Physical Education, 87
 - Speech Correction, 63
- Speech and Dramatics, 79-85
 - A.B. Degrees in, 79-81
 - Description of courses, 82-85
 - Majors, 79-81
 - Minors, 81
- Speech-English, 80
 - A.B. Degree in, 69
- Speech-Radio, 81
 - A.B. Degree in, 81
- Speech Clinic, 83
- Speech Correction, 63
 - Course, 85
- Sports (see Athletics and Recreation)
- State Board of Education, 130
- Student activities (see Clubs and societies, Athletics)
- Government, 15
- Life, 14-20
- Programs (see Normal program)
- Student body fees, 31
- Student Body Government, 15
- Student organizations (see Clubs and societies)
- Student Teachers Club, 16
- Student Teaching, 60
- Subject A, 25
- Summary of expenses, 32
- Summer session, 26, 31
- Supervision Credential, 61-62
- TABLE of Contents, 6-7
- Testing Program, 19
- Transfer to other institutions, 25
- Trustees, 12
- UNIT of credit, 27
- Upper division courses, 47
- U. S. History, 121-122
 - Required of all Degree Candidates, 37-38
- VETERANS, 20
 - Veterans' Administration, 20
 - Veterans' Educational Institute, 23
 - Vocational Rehabilitation, 35
- WILDLIFE management courses, 110
 - A.B. Degree in, 110
- Withdrawal from college, 29
 - From courses, 29
- Women's Athletic Association, 16
- Women's Athletics (see Intramural sports)
- YEAR book (see "Sempervirens")
- Year course, 47
- ZOOLOGY courses, 111
 - Major in, 105
 - Minor, 107

CIRCULAR OF INFORMATION

FOR THE YEAR 1948-1949

HUMBOLDT STATE COLLEGE

A FOUR-YEAR COLLEGE

ACCREDITED BY THE NORTHWEST ASSOCIATION OF SECONDARY AND HIGHER SCHOOLS,
THE UNIVERSITY OF CALIFORNIA, AND THE STATE DEPARTMENT OF EDUCATION

STATE COLLEGES OF CALIFORNIA

California Polytechnic.....	San Luis Obispo
Chico State College.....	Chico
Fresno State College.....	Fresno
Humboldt State College.....	Arcata
Los Angeles State College.....	Los Angeles
Sacramento State College.....	Sacramento
San Diego State College.....	San Diego
San Francisco State College.....	San Francisco
San Jose State College.....	San Jose

Vol. XXXIII, No. 2

JUNE 1, 1948

THE LIBRARY OF THE
JUL 23 1948
UNIVERSITY OF ILLINOIS



ADMINISTRATION BUILDING

1948

JULY

S	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	--	--	--	--

SEPTEMBER

S	M	T	W	T	F	S
--	--	--	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	--	--

OCTOBER

S	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER

S	M	T	W	T	F	S
--	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	--	--	--	--

DECEMBER

S	M	T	W	T	F	S
--	--	--	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	--

1949

JANUARY

S	M	T	W	T	F	S
--	--	--	--	--	--	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	--	--	--	--	--

FEBRUARY

S	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	--	--	--	--	--

MARCH

S	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	--	--

APRIL

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MAY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	--	--	--	--

JUNE

S	M	T	W	T	F	S
--	--	--	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	--	--

JULY

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

AUGUST

S	M	T	W	T	F	S
--	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	--	--	--

SEPTEMBER

S	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	--

OCTOBER

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

NOVEMBER

S	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	--	--	--

DECEMBER

S	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

ACADEMIC CALENDAR—1948-49

FALL SEMESTER, 1948

September 1st -----	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.
Orientation and Personnel Tests ----- (Entering Freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on September 10th in the College Auditorium.)	Friday and Saturday, September 10th and 11th
Pre-programming ----- (Entering Freshmen and other new students.)	Monday, September 13th
Registration Period -----	Tuesday and Wednesday, September 14th and 15th
Freshmen (A-M) -----	Tuesday, 9.00 a.m. to 12.00 m.
Freshmen (N-Z) -----	Tuesday, 1.00 p.m. to 4.00 p.m.
Juniors -----	Tuesday, 9.00 a.m. to 4.00 p.m.
Sophomores (A-M) -----	Wednesday, 9.00 a.m. to 12.00 m.
Sophomores (N-Z) -----	Wednesday, 1.00 a.m. to 4.00 p.m.
Seniors -----	Wednesday, 9.00 a.m. to 4.00 p.m.
Instruction Begins -----	Thursday, September 16th
Last Day for Program Changes -----	Friday, October 15th
Armistice Day -----	Thursday, November 11th
Mid-term Warning Notices -----	Friday, November 12th
Thanksgiving Holidays -----	Thursday, November 25th-Sunday, November 28th
Christmas Holidays -----	Saturday, December 18th-Sunday, January 2d
Semester Examinations -----	Monday, January 24th through Friday, January 28th

NOTE: No new student will be permitted to register unless his transcripts are on file in proper order, and until he has taken the personnel tests scheduled above.

SPRING SEMESTER, 1949

January 15th -----	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.
Orientation and Personnel Tests ----- (Entering Freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on February 3d in the College Auditorium.)	Thursday and Friday, February 3d and 4th
Pre-Programming ----- (Entering Freshmen and other new students.)	Monday, February 7th
Registration Period -----	Tuesday and Wednesday, February 8th and 9th
Freshmen (A-M) -----	Tuesday, 9.00 a.m. to 12.00 m.
Freshmen (N-Z) -----	Tuesday, 1.00 p.m. to 4.00 p.m.
Juniors -----	Tuesday, 9.00 a.m. to 4.00 p.m.
Sophomores (A-M) -----	Wednesday, 9.00 a.m. to 12.00 m.
Sophomores (N-Z) -----	Wednesday, 1.00 p.m. to 4.00 p.m.
Seniors -----	Wednesday, 9.00 a.m. to 4.00 p.m.
Instruction Begins -----	Thursday, February 10th
Last Day for Program Changes -----	Friday, March 11th
Mid-term Warning Notices -----	Friday, April 1st
Easter Holidays -----	Saturday, April 9th through Sunday, April 17th
Memorial Day -----	Monday, May 30th
Semester Examinations -----	Monday, June 6th through Friday, June 10th
Commencement -----	Monday, June 6th

SUMMER SESSION, 1949

(TENTATIVE DATES)

June 20th-July 29th

POST SESSION

August 1-August 26th

TABLE OF CONTENTS

	Page
CALENDARS	
July, 1948-December, 1949	3
Academic	4
TABLE OF CONTENTS	6
NOTE TO THE PROSPECTIVE STUDENT	
A Word about the College	8
A Word about this Catalog	8
THE COLLEGE	
Location	10
Physical Equipment	10
Historical Note	11
STUDENT LIFE	
Living Accommodations	14
Student Organizations	14
Publications	16
Social Life	16
Athletics and Recreation	17
Music and Drama	18
Counseling	18
COMMUNITY RELATIONS	
Placement Service	21
Community Service	21
Extension Courses	21
Alumni Associations	21
ADMISSION TO THE COLLEGE	
Requirements for Admission	23
Admission with Advanced Standing	24
Admission to the Graduate Division	24
Transfer to Other Institutions	25
Subject A	25
College Aptitude Test	25
Registration	26
Summer Session	26
ACADEMIC REGULATIONS	
Unit of Credit	27
Classification of Students	27
Marking System	27
Normal Program	28
Class Enrollment and Attendance	28
Changes of Program	29
Withdrawal from College	29
Reports to Students	29
Credit by Extension	29
Probation and Disqualification	30

TABLE OF CONTENTS—Continued

	Page
FEEs AND EXPENSES	
Fees	31
Refunds	31
Summary of Expenses for Regular Students	32
Student Employment Service	32
 HONORS, SCHOLARSHIPS AND LOANS	
Scholastic Honors	33
Honor Societies	33
Scholarships	33
Miscellaneous Awards	36
Loan Funds	36
 DEGREES, CREDENTIALS AND CURRICULA	
General Statement	38
Requirements for Bachelor of Arts Degree	39
Lower Division Curricula	42
 COURSES OF INSTRUCTION	
Organization of the College	48
Explanatory Note	49
School of Education	52
School of Arts and Sciences	65
Division of Fine and Applied Arts	65
Art	66
Home Economics	71
Industrial Arts	75
Music	79
Speech	85
Division of Health and Physical Education	92
Physical Education for Men and Women	92
Health and Hygiene	100
Division of Language and Literature	103
English	103
Journalism	109
Modern Languages	110
Division of Natural Sciences	112
Biological Sciences	112
Physical Sciences	122
Mathematics	125
Division of Social Sciences	127
History	133
Economics	136
Business Administration	137
Geography	141
Philosophy	141
Political Science	142
Psychology	143
Sociology	144
Group Major	145
 DIRECTORY OF PERSONNEL	 146
INDEX	155

NOTE TO THE PROSPECTIVE STUDENT

A WORD ABOUT THE COLLEGE

Humboldt State College offers the prospective student several advantages and attractions. It is a five-year college, whose courses are organized to meet a variety of educational needs. The basic studies in the liberal arts and sciences afford an opportunity for a cultural education. With some degree of specialization, these courses provide professional training in teaching, social service, business administration, and other fields. Also, they provide the background work which is required for many more highly specialized professions such as medicine, dentistry, or engineering.

The College also offers practical training programs in secretarial work, wildlife management, radio production, and other vocational fields.

Besides these educational facilities, the College affords a congenial dormitory life, an activity program (music, athletics, dramatics), in which all are encouraged to participate, and a natural environment that is unexcelled for scenery and opportunity for outdoor life. And lastly, though not least, the friendliness of the students, and the cordial relationship existing between faculty and students are factors that promote the happy adjustment of the new student.

In cooperation with federal and state agencies, Humboldt State College offers to veterans of World War II an opportunity to pursue an educational program under highly favorable circumstances. Those eligible to receive government aid should consult representatives of the Veterans Bureau and the college authorities regarding enrollment.

A WORD ABOUT THIS CATALOG

This catalog is your introduction to the purposes and work of Humboldt State College. In it we have sought to put all the information necessary for an understanding of the offerings of the College, its organization, and the way in which it functions. Careful study of it will enable you to follow the curricular requirements and regulations with a minimum of personal assistance.

Acquaintance with some matters may well be postponed until after you have become well established in the College, but you should familiarize yourself with certain parts of this catalog as soon as you have decided to enter the College, namely:

(1) *How you enter the College.* The requirements and procedure for matriculation in the College are explained in the section entitled "Admission to the College." The procedure for enrolling in classes is specified under "Academic Regulations."

(2) *College rules and regulations.* The rules and regulations applying to all students are found in the section "Academic Regulations." All students are held responsible for a knowledge of them. Those requirements referring to particular curricula are found under "Degrees, Credentials, and Curricula."

(3) *Your course of study.* You will find the various curricula outlined under "Degrees, Credentials, and Curricula." Detailed information is given under the various divisions in the section "Courses of Instruction." A system of cross references to pages in both sections should enable you to find your information readily. The explanatory note at the beginning of the section "Courses of Instruction" is called to your attention.

(4) *Your expenses.* Expenses and fees charged by the College and the student body are listed under "Fees and Expenses." They are payable at the time of registration (except in the case of veterans registering under a government program). Living arrangements are discussed under "Student Life." In the next section, you will also find information regarding scholarships and loans that are available; directions for seeking employment are given under "Fees and Expenses."

If you have questions, please feel free to communicate with the Registrar of the College, or if you can, visit us personally.

Meanwhile, we invite you to come to Humboldt and hope we can welcome you here when the new semester opens.

THE PRESIDENT AND FACULTY OF HUMBOLDT STATE COLLEGE

THE COLLEGE

LOCATION

Humboldt State College is located in the town of Arcata, which is situated on the north shore of Humboldt Bay in Northern California. Backed by high forested hills, the College occupies a conspicuous position on the top of a hill, about a mile from the center of town. It commands an unrestricted panorama of forested mountains, bay, dairy and farm lands, sand dunes, Pacific Ocean, and at night the lights of Arcata, Eureka, and Samoa.

Arcata, the first town to be established in northwestern California, is located on the famous Redwood Highway eight miles north of Eureka and 300 miles north of San Francisco. It is reached by the Northwestern Pacific Railroad, Pacific Greyhound Lines, and by Southwest and United Air Lines. It has a population of over 3,800. Lumbering, box manufacturing, and dairying form the basis of the business life of the community. Eureka nearby is a thriving city of about 20,000 people. It is the county seat of Humboldt County and is the site of a woolen mill and several lumber mills. About 50 miles south of Eureka is Cape Mendocino, the westernmost point of the mainland of California. Humboldt State College holds the distinction of being the college farthest west in the United States.

The climate of the Humboldt Bay region, though moist, is stimulating and equable, the extremes of heat and cold being absent. Summer and fall are particularly delightful seasons.

PHYSICAL EQUIPMENT

CAMPUS AND BUILDINGS

The physical plant of the College comprises a compact group of buildings and athletic facilities, appropriately landscaped. The main building, a rectangular two-story structure surrounding an inner court, houses the administrative offices, faculty offices, classrooms, library, social unit, and auditorium. Adjacent to the main building are the original normal school buildings, used today for a variety of purposes. In the rear are a modern gymnasium and stadium, with turf playing field and facilities for football, baseball, and track.

Back of the athletic field and gymnasium, the College owns a large tract of second-growth redwood forest, in which have been cut a number of trails and clearings for purposes of recreation and botanical study.

In front, across the street from the main building, are four tennis courts for the use of the students and faculty. A small greenhouse, a fish hatchery, and game-bird breeding pens have been provided for specialized class projects.

Not far from the main building is Nelson Hall, a modern dormitory which accommodates 65 students and houses the well-equipped dining commons.

LIBRARY

The library, situated off the south end of the inner court, contains some 20,000 volumes. Though not large, this collection is well distributed as to subject matter, including recreational reading, and is constantly being enlarged. Its periodical list contains over 150 titles, about half of which are scientific and professional and the rest of general nature. For many of the titles which the library does not possess it draws upon the collection of the California State Library, with which it has a borrowing arrangement. If desired, the library will also borrow, at a small expense charge, from the great collection of the library of the University of California at Berkeley. The library requirements of the College are thus met in adequate fashion.

COLLEGE ELEMENTARY SCHOOL

The College maintains an elementary school on the campus, a short distance from the main building. It is here, as well as in the schools of Eureka and Arcata, through the cooperation of their school authorities, that the student teaching by the teaching credential candidates is conducted.

The College Elementary School extends from the kindergarten through the eighth grade and is housed in a commodious and modern building of reinforced concrete. Fenced-in playfields are provided for the demonstration of a modern program of physical education.

An extensive building program has been approved and construction is expected to begin as soon as materials are available upon a new industrial arts building, a science, and a library building, which are the units first scheduled for construction. An auditorium, a women's gymnasium, swimming pool, an administration building and a vocational arts building are tentatively approved for future construction, and additional property adjacent to the campus is being purchased by the State to provide for the planned expansion of the College. Funds have also been apportioned for the construction of dormitory buildings to house approximately two hundred students. Temporarily, the Federal Government has allocated housing units and other facilities to better enable the College to meet the demands of the present emergency.

HISTORICAL NOTE

Humboldt State College is one of the nine California state colleges, which have developed out of the old state normal schools. The original Humboldt State Normal School was established in 1913 by an act of the Legislature. Actual instruction began on April 6, 1914, the first class sessions being held in the Arcata Grammar School under an agreement between the Board of Education of Arcata and the normal school authorities.

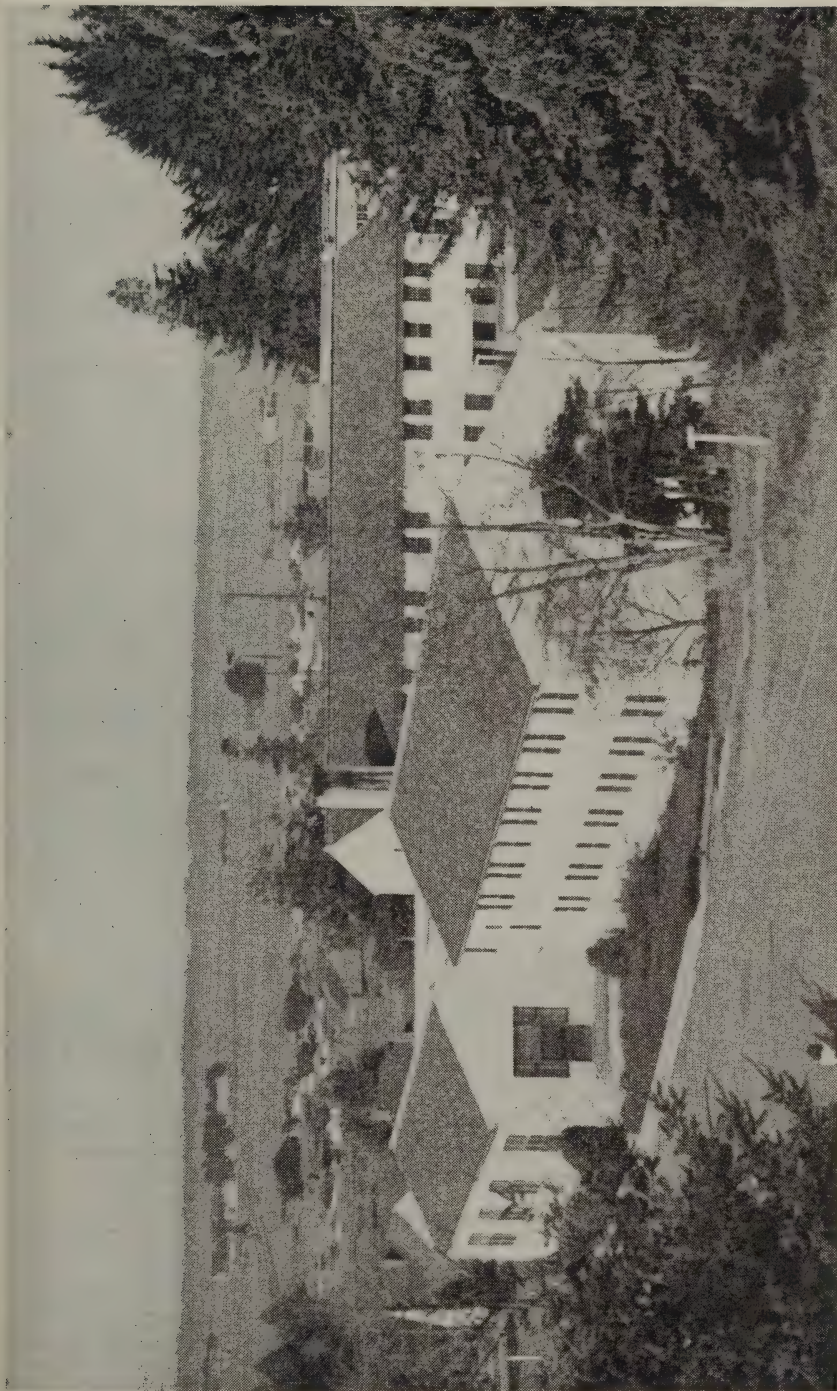
The fine site of the College was donated by William A. Preston and the Union Water Company, whose officers were Noah H. Falk, Len Yocom, Mrs. Arthur Way, and Mrs. Kate Harpst. By January, 1915, temporary wooden buildings were constructed and ready for occupancy. In 1917 the Legislature appropriated \$245,000 for the permanent main building, which has been in use since February, 1922. A \$70,000 gymnasium was added in 1930 and the four tennis courts and the College Elementary School in 1933. In 1941, Nelson Hall, a dormitory for men and

women, was erected at a cost of \$195,000. This building was named for Honorable Hans Nelson of Eureka, who introduced the original bill in the Legislature for the establishment of the College.

The professional curriculum in teacher training originally required two years to complete. Gradually it was extended and broadened to include many of the liberal arts and the sciences, so that today at least four years must be spent to complete any teacher credential curriculum offered by the College.

Control of the institution was first vested in a local board of trustees, appointed by the Governor. The members of this first governing board of trustees were: E. W. Haight, Fortuna; Rease M. Wiley, Arcata; Charlotte Gale, Arcata; Henry J. Bridges, Eureka; and Dr. W. E. Cook, Eureka. In 1921 control was transferred to the State Department of Education and the College placed in the hands of the Director of Education and the State Board of Education. The Legislature at the same time changed all of the normal schools to State Teachers Colleges, and authorized the State Board of Education to grant the Bachelor of Arts Degree in Education. In 1935 the Legislature changed the name to Humboldt State College and authorized the granting by the College of the Bachelor of Arts Degree in the Liberal Arts. Thus the College now functions as a teacher training institution and as a regional, liberal arts college.

In 1947, the College received authorization to grant the General Secondary Credential. This authorization entailed a year of graduate study, so that the institution thus became a five-year college.



NELSON HALL, RESIDENCE HALL FOR MEN AND WOMEN

STUDENT LIFE

LIVING ACCOMMODATIONS

Living quarters for students in attendance at the College are available in the college dormitories, Nelson Hall and Redwood Hall, which are operated under the supervision of the Head Residents and the President. Nelson Hall is a beautiful, modern building accommodating over 100 men and women and including the spacious dining commons and lounge. Redwood Hall is an all-men's dormitory housing 68 men comfortably and pleasantly.

Three students are assigned to each room, with reasonable rental rates. Bedding and towels and their laundering are provided by the dormitory. Students residing at Nelson Hall must agree to take their meals at the dining commons, at reasonable rates, with allowance for regular absences over week-ends. The cost of meals at the commons averages from \$1.25 to \$1.50 per day.

Other students, faculty members, and their friends are privileged to obtain meals at the commons in Nelson Hall.

All lower division women students who do not commute daily to the College are expected to live in Nelson Hall, unless special arrangements are made by the parents with the Dean of Women. It is advisable, also, for upper division women to reside in the dormitory, if they are away from home.

By special arrangement with the Federal Housing Authority 30 housing units have been allocated to Humboldt State College. These dwellings comprise Humboldt Village, situated at a convenient distance from the central buildings, and are available at reasonable rental rates.

Application for admission to the dormitories and to Humboldt Village should be made through the office of the Dean of Students. New students at Humboldt State, who are not known personally by the faculty, must accompany their application with two letters recommending the applicant's character and integrity. These letters should be from teachers or friends who have a personal acquaintance with the applicant.

Because of existing conditions, it is difficult to find accommodations for board and room in the community. However, if a room or an apartment is desired, the student should consult the Dean of Students at an early date as it is necessary to make arrangements well in advance of the opening of the semester.

It is important that the College have correct local and home addresses of all students. A record of these addresses is kept both in the office of the Secretary to the President and in the office of the Registrar.

STUDENT ORGANIZATIONS

A number of student activities are carried on in the College in the form both of student organizations and of certain activities such as athletics, dramatics, and music, for which college credit is given. The administration is convinced of the value to all students of participation in a reasonable number of these activities.

STUDENT BODY GOVERNMENT

In keeping with the democratic tradition in American education the College administration encourages student body government as a means by which the students may acquire an appreciation of and practical experience in the art of self-government. It is expected that such government will develop leadership and a sense of responsibility among the students. However, the faculty retains authority and supervision over certain matters, such as student body finances and relations with individuals or groups outside the College where sound financial practice, legal responsibilities, and the best interests of the students make it advisable.

The organization of the students, known officially as the Associated Students, consists of four officers—President, Vice President, Secretary, Treasurer—a Board of Control, and an Executive Council. The student body officers are elected annually in the spring. The Board of Control composed of the Vice President of the Associated Students as ex-officio chairman, three women, and three men elected along with the student body officers, is charged with the responsibility of maintaining high standards of conduct around the College. The Executive Council consists of the four elected student body officers, the members of the Board of Control, and a faculty sponsor appointed by the President of the College. Its duties are to hold student body elections, set student body dues, approve and adjust the budget, authorize purchases and the payment of bills, inventory school property at the end of the school year, and oversee student body affairs in general.

Student body membership is prerequisite to participation in any extra-curricular activity sponsored by the Associated Students.

STUDENT COOPERATIVE STORE

For the convenience of the students, the student body maintains a cooperative store where college textbooks and supplies may be obtained at cost. It is equipped with a soda fountain and facilities for serving meals.

CLUBS AND SOCIETIES

To recognize scholastic achievement, encourage particular interests, and afford recreation, the students have established a number of organizations, which are authorized by and coordinated through the Associated Students. Among these organizations are the following:

Alpha Psi Omega (a National dramatics fraternity)

Associated Women Students

Chi Sigma Epsilon (local scholastic honor society)

The College "Y"

G.I. Wives Club

Home Economics Club

Humboldt State College Ski Club

Men's Association

Modern Dance Group

Mu Epsilon Psi (music club)

Newman Club

Physical Education Club

Residence Hall Groups

Rho Sigma (sophomore honor society)

Student Teachers' Club

Women's Athletic Association

In addition the freshmen, sophomore, junior, and senior classes are organized and select their faculty sponsors early in the fall semester.

PUBLICATIONS

A weekly college newspaper, the *Lumberjack*, is published by the Associated Students.

The student yearbook, *Sempervirens*, is usually published in the spring.

SOCIAL LIFE

The social atmosphere of Humboldt State College is highly congenial and informal, contributing both to the enjoyment of the students and to the development of social poise and the appreciation of the arts of gracious living. Dormitory life and the friendly relationships between faculty and students are factors that help to promote a well-rounded social program.

A considerable number of student dances are given throughout the college year under student body auspices. The Associated Women Students hold a Freshman Round-Up early in the fall semester. In the spring they give a combined Mother's Day tea and fashion show, as well as a tea honoring the new freshmen students. They also assist as hostesses at social functions in honor of visiting schools or given by the faculty. The Women's Athletic Association sponsors banquets and sports affairs throughout the year. This group also sponsors a large annual party for all new women students. At the end of the spring semester just before Commencement the graduating seniors conclude their undergraduate days with a series of outings and a senior banquet and ball. Numerous impromptu social functions are held at the dormitories by the resident students. In addition to these affairs, a formal dance is sponsored each semester by the students of Nelson Hall and the Head Residents entertain the students at an annual Christmas party. Student organizations cooperate in drawing up the annual calendar of events which is made up in May for the ensuing year.

The faculty sponsor several social functions for the students. In the spring, President and Mrs. Gist entertain the seniors at a tea in their home. Likewise, after the Baccalaureate services, which are held in the College Court, the faculty give a reception in honor of the graduating class.

ATHLETICS AND RECREATION

INTRAMURAL SPORTS

To promote recreation and physical development, the Division of Health and Physical Education conducts a program of intramural sports.

For the women, a full program of intramural sports is conducted under the sponsorship of the Women's Athletic Association. The school year is divided into three seasons, fall, winter, and spring, and a field week of final tournaments is held during the last week of each season. The field week dinner for all new members concludes the events of the week. Activities offered during the year include hockey, basketball, softball, volleyball, tennis, archery, badminton, and an outing club. The Women's Athletic Association in conjunction with the department of

Physical Education for Women sponsors a play day at the College for the girls in all the high schools in Mendocino, Humboldt, and Del Norte Counties.

For the men, intramural activities are supervised by the Intramural Board, competition being organized in basketball, volleyball, tennis, and golf. Leagues are organized throughout the county to provide additional opportunities for stimulating competition. Boxing teams from the College participate in all tournaments held in this area.

Co-educational recreational activities are encouraged and sponsored by several agencies including the golf, riding, outing and modern dance groups.

MEN'S ATHLETICS

The student body conducts a full program of men's intercollegiate athletics that includes football, basketball, baseball, track, boxing, and tennis, on both the varsity and junior varsity level. Competition is scheduled with colleges and amateur athletic organizations in California and Oregon. A large number of the men students participate in the intercollegiate competition of the College, for the coaching staff is especially interested in developing capable performers out of individuals with little or no athletic experience.

The College is a member of the Far Western Conference, and the regulations of that conference govern athletic eligibility. The member schools of this conference are: Chico State College, University of California, Humboldt State College, Southern Oregon College of Education, and San Francisco State College.

The Division of Health and Physical Education requires all men and women participating in intercollegiate athletics and intramural sports to pass a health examination each season.

OUTDOOR RECREATION

The student seeking recreation on his own will find in the surrounding country a variety of scenic and natural attractions. Several miles of sand dunes extend along the ocean from the north jetty of the entrance to Humboldt Bay to Little River. North of Little River the coast becomes rugged, with numerous caves, points, and reefs. About 20 miles north of Arcata on the Redwood Highway is Patrick's Point with fine picnic facilities, and a couple of miles beyond that is Big Lagoon, a virtual salt-water lake which, protected from ocean breakers, affords safe swimming and boating. Within an hour's drive or less one can reach the famous redwood groves south of Scotia and north of Patrick's Point, as well as along the Van Duzen River. At North Dyerville Flat stands the tallest tree in the United States, 364 feet in height. Consultation of any good road map of Northern California will suggest several interesting trips into a rugged and little settled back-country interior from the coast.

Still other attractions offer themselves. Humboldt County possesses a relative abundance of wild game and fish. In the winter there is skiing on Grouse Mountain, where the College Ski Club has built a cabin. In the summer there is swimming in the pools of Mad and Eel Rivers. The golf course near Arcata makes special rates to students. The lighthouse at Cape Mendocino, the lighthouse and Spanish cross at Trinidad Head,

the Blowhole three miles south of Trinidad, the Coast Guard station on the peninsula, the woolen mill in Eureka, the box factory in Arcata, and the large lumber mills in Arcata, Samoa, Eureka, and Scotia are places well worth visiting.

MUSIC AND DRAMA

There is abundant opportunity for students to participate in musical and dramatic activities at Humboldt. A wide and varied program is offered in both fields.

Musical organizations include a Little Symphony Orchestra, a College Chorus—open to all men and women regardless of ability—and an A Cappella Choir. These groups give concerts in both the fall and spring terms. In addition the A Cappella Choir annually tours Northern California and the bay region, singing at many schools, colleges, and churches. The Choir has gained state-wide recognition for its outstanding performances.

An annual Music festival sponsored by the College brings to the campus musical organizations from all high schools in this region in a festival culminating in a concert by the massed bands of the participating schools.

The Drama Department of the College is noted for its productions. Each year it presents two major plays, a group of one-act plays, and play readings. Acting parts in these productions are open to all students who wish to try out. Also, through the Dramatic Workshop experience is offered in the other arts and crafts of the theater: scene design, stagecraft, lighting, make-up, etc.

The College sponsors an annual drama festival for the high school students of three counties, Mendocino, Del Norte, and Humboldt. Each high school participating presents a one-act play in a noncompetitive program which brings to the campus a large number of high school students interested in this field.

Humboldt State exchanges plays with two other colleges. Annual drama festivals are held with both San Francisco State College and Chico State College. Thus, each year the Humboldt Players have the opportunity of traveling to one of these schools and of entertaining the other on the Humboldt campus. The festivals, which are noncompetitive in nature, have become well known throughout Northern California.

RADIO

Many speech majors are particularly interested in the field of radio. Through arrangement with stations KIEM and KHUM in Eureka, these students are given practical experience in broadcasting. Several programs are broadcast by direct wire from the campus each week over these stations. The schedule includes programs by both faculty and student groups. The College is a member of the Intercollegiate Broadcasting System of America.

Students receive regular course credit for participation in either music, drama or radio.

COUNSELING AND GUIDANCE

The College maintains a program of counseling and guidance designed to aid the entering freshman in making a satisfactory adjustment and to afford an adequate follow-up program throughout his stay

at Humboldt State College. Since many factors affect the academic progress of a student and his ultimate success in life, the guidance program is many-sided and every faculty member participates in some phase of the program. The activities of the various agencies are coordinated by the Personnel Committee, which is composed of the President of the College, the Dean of Students, the Registrar, the Deans of Men and Women, and the Director of Teacher Training.

At the time of registration individual attention is given by the faculty program advisers, who are assigned on the basis of vocational objective or major field. A student is free to consult his adviser at all times concerning academic or personal problems. The academic success of his students is a matter of paramount concern to every instructor, and the policies of the College are geared to the attainment of high scholastic standards.

The College provides facilities for administering many types of standardized tests under the direction of the Testing Bureau. All students take the Ohio Psychological Examination (i.e., the college aptitude test), the Bell Personal Adjustment Inventory, the Iowa Silent Reading Test, and the Kuder Vocational Preference test. Other tests that are available include the general education and the special subject tests prepared by the U. S. Armed Forces Institute, the Strong Vocational Interest test, and many others.

Early in the semester, the Deans of Men and Women interview individually each freshman student, and several freshman assemblies are held to promote adjustment to college life.

An excellent opportunity for group guidance and social living is provided through the College dormitories. The Head Residents administer the internal affairs of the dormitories, employing student government insofar as it seems feasible to do so.

HEALTH SERVICE

In order to safeguard the health of its students, the College engages a physician and a health director, and maintains a health service program. The College Physician examines and counsels students on health problems. At least three medical examinations are given each student as follows:

- (1) At entrance (including a dental examination);
- (2) During the junior year;
- (3) Before graduation.

Included in the Student Body fee is a charge of \$1.50, covering physical education, hospitalization, and health services.

Emergency treatment is given in case of accident or illness. Hospital service with special rates in the local hospital is available to students who make arrangements for such services through the Health Department.

VETERANS' SERVICE

For veterans, special counseling and guidance services are available. Harry E. Griffith, Dean of Men, is himself a veteran with overseas service. Several other members of the faculty also served in the armed forces and all are interested in the returned veterans and their problems.

Specialized guidance and counseling is also provided under the joint auspices of Humboldt State College and the Advisement and Guidance Section of the Veterans Administration. Vocational counseling is available here to any veteran who may wish assistance in determining his vocational goal.

Various community organizations and agencies are also prepared to render service to former members of the armed forces who are now enrolled in the College.

Wives of service men enrolled in the College are organized into a "G. I. Wives" Club, which holds regular monthly meetings. The group seeks to provide social activities for its members and especially to welcome strangers into the group and introduce them to the College and campus activities in which they are urged to share.

COMMUNITY RELATIONS

PLACEMENT SERVICE

The College maintains a Placement Bureau both for the service of graduates of the College and of employers. It seeks to help the College graduates, both current and past, find the positions best suited to their abilities and training, and to assist employers by recommending to them the candidates best suited to the positions to be filled.

The placement of graduates in the business courses is handled by the department. The bureau is alert to discover not only beginning positions for students, but to secure promotion for former students. For a number of years, the institution has been successful in placing virtually all of its recommended graduates, and at present, the demand exceeds the supply.

Students seeking position as teachers will find it to their advantage to work through the Placement Bureau. This bureau assembles and furnishes to school officials information about the character, sense of responsibility, scholastic achievement, participation in student activities, and success in student teaching of the graduates of the College who hold teaching credentials.

Since the organization of the Placement Bureau 20 years ago, more than 95 percent of all graduates who desired teaching positions have been placed. In recent years, this figure has frequently reached 100 percent. Humboldt graduates are teaching successfully in almost every county of the State.

COMMUNITY SERVICE

Inasmuch as the College is a state institution, its facilities, when not in use for college purposes, are available for use by the citizens of the State. It particularly welcomes conventions, conferences, and assemblies of educational or cultural nature. The College auditorium seats 350. Arrangements for the serving of meals in the dining commons should be made with the manager of Nelson Hall.

EXTENSION COURSES

Extension courses will be conducted at the College in the evenings or on Saturdays whenever a sufficient number of teachers or members of the general public make such a request. Similar courses will be offered away from the campus if at least 20 people enroll in a course and make provision for the additional expense of such instruction.

THE ALUMNI ASSOCIATION

Active in the support of College affairs is the Humboldt State Alumni Association. This organization seeks to perpetuate college friendships, to promote the interests of the College, to acquaint prospective students with the opportunities open to them at Humboldt State, and to support worth while projects that contribute to the progress of the College.

Graduates and former students who have completed at least 6 units of work are eligible to membership in the association which holds annual or semiannual meetings, and publishes an alumni quarterly.

Former students (prior to 1947) who are eligible for membership may obtain a life membership in the association by the payment of a fee of \$10. Under a plan approved by the Associated Students and incorporated into the constitution of the Alumni Association, students pay a fee of one dollar per semester, and upon graduation, are automatically life members of the association. Those who complete 30 units of work but less than eight semesters may obtain life membership in the Association by paying the difference between their contributions and the total fee.

Officers of the association at present are:

Carl Owen	President
Eugene Blackburn	Vice President
Frances Waters	Secretary
Fred Hibler	Treasurer

ADMISSION TO THE COLLEGE

REQUIREMENTS FOR ADMISSION

High school graduates and other applicants possessing equivalent preparation may be admitted to a state college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, by evidence of good moral character and personal qualifications, and by a satisfactory score on a standard college aptitude tests. Regular matriculation will be granted only after the satisfactory completion of a full semester's program of study with records indicating probable success in the chosen curriculum.

Veterans honorably discharged following completion of three full months of service in the armed forces during the emergency created by World War II, and applicants over 21 years of age, who are not high school graduates and who do not possess equivalent preparation but whose score on a standard college aptitude test indicates ability to do satisfactory college work in the chosen curriculum, may be granted provisional admission as special students. Such persons may be granted full matriculation on the following conditions: (1) the removal of all deficiencies; (2) the completion of one full semester's satisfactory college work in the chosen curriculum.

The state law provides that veterans who lack but one semester of high school work for graduation may secure their high school diplomas upon application to the high school. Those who lack more than one year of high school work are advised to: (1) Apply military service credit toward the removal of high school deficiencies and receive diplomas if possible; or (2) take the high school Test of General Educational Development prepared by the U. S. Armed Forces Institute. A satisfactory score on this test is usually accepted as a basis for granting the high school diploma, but additional statutory requirements may sometimes be required. Veterans should consult their high school principals concerning these matters.

Veterans who wish to be admitted to the College under the so-called "G.I. Bill," Public Law 346, should submit an application for a Letter of Eligibility to the Veterans Administration together with a photostatic or certified copy of their discharges. When they receive the Letter of Eligibility they must present it to the College when they report for registration.

Veterans with 10 percent disability or more should consult the Veterans Administration regarding the possibility of enrolling under the Veterans Rehabilitation Act, Public Law 16.

The State of California also offers educational assistance to veterans under the Veterans' Educational Institute, with headquarters in Sacramento. The state aid program may be used either before or after the federal educational assistance has been used, but it can not be used concurrently.

Upon admission to college, all students are classified on the basis of the curricula chosen and their qualifications for undertaking such

curricula. Approval for full matriculation shall be granted by the College Faculty in accordance with State Board of Education regulations.

ADMISSION WITH ADVANCED STANDING

CREDIT FOR MILITARY SERVICE. Veterans who have served for a minimum of three months in the armed forces will receive credit in compliance with the recommendations of the American Council Guide to the Evaluation of Educational Experiences in the armed services. Wherever possible, this credit will be applied in satisfaction of specific requirements, but if this is not possible, it will be treated as unclassified, elective credit.

Veterans whose training included formal college work, (C. D. T., or A. S. T. P.), or who completed courses of college level under the U. S. Armed Forces Institute or other formally organized college classes should submit complete transcripts of record covering all such courses if they wish to receive credit for this work.

FROM OTHER COLLEGES. Applicants for admission who have completed work in any recognized institution of collegiate grade may be admitted and given advanced standing as determined by the proper authorities. These applicants must present transcripts of record showing satisfactory scholarship and honorable dismissal from the institution last attended. Credit toward the fulfillment of graduation requirements will be allowed only insofar as the courses satisfactorily completed meet the requirements of the basic course pattern of the curriculum to be followed in this College.

No credit is allowed for teaching or other practical experience. Specific requirements in certain departments may be waived, however, on the basis of previous experience. An exemption allowed for experience will not carry units of advanced standing nor diminish the number of units required for graduation.

Credits earned in nonaccredited colleges may be accepted as a basis for advanced standing only to the extent that the applicant can demonstrate to the satisfaction of the State College authorities that a satisfactory degree of proficiency has been attained in the courses in question.

FROM JUNIOR COLLEGES. Credits earned in accredited junior colleges will be evaluated by the State College in accordance with the following provisions:

1. Not more than 64 semester hours of work may be allowed for credit.
2. No credit may be allowed for professional courses in education.

SCHOLARSHIP AVERAGE. In the case of students transferring to this college from other institutions, the scholarship average at the previous institution will be included with the average made at this college.

ADMISSION TO THE GRADUATE DIVISION

Holders of bachelors' degrees from accredited institutions will be admitted to the graduate division to work toward the General Secondary Credential upon presentation of transcripts showing satisfactory scholarship records and adequate preparation in the major field. Students whose

undergraduate records do not qualify them for admission to the graduate level may be admitted to such upper division courses as may serve to remove deficiencies.

Requirements for the secondary majors and minors are outlined in the sections of this catalog devoted to the respective divisions. Requirements in Education are outlined on pages 58 and 59.

Credits earned in the graduate division of this institution are accepted wherever applicable in transfer to the University of California toward the masters' degree.

TRANSFER TO OTHER INSTITUTIONS

Humboldt State College is accredited by the Northwest Association of Secondary and Higher Schools, by the University of California, and by the State Department of Education.

Holders of the A.B. Degree from Humboldt State College are accepted for unconditional admission to the graduate school of the University of California at Berkeley upon presentation of transcripts of record. The amount of work to be taken for an advanced degree is determined when the student is interviewed at the University. This same procedure is applied to graduates of all universities and colleges. Accreditation by the State University implies similar acceptance by other institutions. Humboldt students transfer freely to other colleges, universities and professional schools.

All students intending to transfer to another institution should consult the requirements of the institution to which they intend to transfer and arrange their programs at Humboldt accordingly.

During the present emergency, many professional schools have introduced varied screening devices, so that admission is on a highly selective basis. Students who expect to transfer to these professional schools should acquaint themselves with prevailing standards in the particular fields to be pursued.

SUBJECT A

Students who enroll as freshmen at Humboldt State College are required to take the Subject A examination during the registration period. Those who pass the Subject A test with a satisfactory score enroll in English 1A, First Year Reading and Composition, during the first semester in college. Those who fail the examination are required to take Subject A, English Composition. Although credit is given for this Subject A course, these units may not apply toward the six units in English required for an A.B. Degree. The Subject A examination is a thorough test in English usage and composition.

All entering students except those who have passed the University of California Subject A examination or have passed a course in college composition in some other college are required to take this examination.

COLLEGE APTITUDE TEST

All new students are required to take the college aptitude test, which is given each semester.

REGISTRATION

Students should report for registration in compliance with the schedule announced in the calendar. A faculty adviser is assigned to each student according to the curriculum he selects. After a program has been approved by the adviser, the student completes his registration by the payment of fees and the filing of his registration and course cards.

The student's official study list is filed in the office of the Registrar. Since this list is the basis for official reports and records, the student must assume responsibility for keeping this list accurate at all times.

Prior to formal registration, conferences may be held with advisers or with the Registrar about suitable programs or course requirements.

New students, both freshmen and transfers, should make preliminary arrangements for registration and evaluation of transcripts before the opening of the semester. Transcripts of former work should be filed with the Registrar two weeks in advance.

Students who are unable to report for registration during the designated period must make special arrangements with the administration and the faculty concerned. A special fee of \$1 is collected for late registration.

The procedure for enrolling in classes is described on page 28.

SUMMER SESSION

Each year the College holds a summer session designed to meet the needs of (1) high school graduates prepared to enter college, (2) students and teachers working toward the A.B. Degree or a teaching or administrative credential, (3) teachers who desire to take "refresher" courses or to acquaint themselves with modern educational philosophy and procedures, and (4) persons seeking cultural advantages or combined study and recreation in one of the most scenic regions of California.

Admission to the summer session does not necessarily guarantee admission to the regular session. For students with no previous college work, admission requirements for summer session are the same as for regular session. (See pages 23-24.)

A feature of the recent summer sessions has been a workshop in elementary education, which has proved to be of special interest to in-service teachers.

The Registrar will send the Summer Session Bulletin upon request.

ACADEMIC REGULATIONS

UNIT OF CREDIT

A semester unit represents quantitatively 54 clock hours of work. It is usually administered as one recitation hour per week for 18 weeks, with two hours of preparation for each recitation hour. It may be administered as three recitation hours per week for 18 weeks without outside preparation.

CLASSIFICATION OF STUDENTS

Students are classified in two ways in terms of number of units completed.

Students who have completed less than 60 units are classed as *lower division students*. Ordinarily they are allowed to enroll only in lower division courses (see page 49). Students who have completed 60 or more units are classed as *upper division students*. They may enroll in both lower and upper division courses.

A student's class is determined by the number of units completed, as follows:

Freshmen	Less than 30 units
Sophomores	30 to 59½ units
Juniors	60 to 89½ units
Seniors	90 or more units

During a given semester students registered for more than five units are classified as *regular* students. Students registered for five units or less are known as *limited* students.

MARKING SYSTEM

GRADES

A five-grade marking system is used. The grades employed are defined as follows:

A	Excellent
B	Above Average
C	Average
D	Barely Passing
F	Failure

Plus (+) as given in certain courses means passed with a grade of "C" or better. Inc. means "incomplete," W "withdrawn."

Incomplete will be given to students who have been doing passing work and who, through no fault of their own, are unable (a) to take a final examination or (b) to complete certain class or laboratory work by the end of the semester. The grade is not given to students who are failing or who are dilatory. *The uncompleted work must be made up within the next year of residence, or the Incomplete automatically becomes a Failure.*

HONOR POINTS

Each of the above grades carries honor points as follows:

A-----	3 per unit
B-----	2 per unit
C-----	1 per unit
D-----	0 per unit
F-----	0 per unit

No honor points are given for an Incomplete until the final grade is given. Neither units nor honor points are given for a course from which a student withdraws. Hence, marks of Incomplete or "W" have no effect upon the Scholarship Index.

SCHOLARSHIP INDEX

The Scholarship Index is a device for rating a student's scholarship average. It is derived by dividing the total number of honor points earned by the total number of registered units. In computing the index, units are not included for courses that carry no honor points.

If a student repeats a course in which he has received grades of "D" or "F," he will receive the grade and honor points earned in the repeated course except that unit credit will be allowed only once for a course.

Unless otherwise specified, the term "Scholarship Index" refers to the cumulative rather than the semester index.

NORMAL PROGRAM

Fifteen or sixteen units of work in addition to a half-unit in physical education constitute an average program for a semester. According to the definition of semester unit given above, this means 48 hours of actual work each week.

Students who have demonstrated their ability, measured in terms of the Scholarship Index, may be permitted to carry additional work according to the following scale:

<i>Index of scholarship</i>	<i>Maximum load for following semester</i>
1.25-1.74 -----	17½ units
1.75 and above-----	18½ units

First semester freshmen, however, are limited to a maximum load of 17 units.

The approval of the Health Department is also required for students who register for more than the normal program.

In order to secure credit for their work students must have their programs approved by the faculty adviser.

CLASS ENROLLMENT AND ATTENDANCE

For each student who registers for a given class a course card is issued to the instructor. No student may be admitted to class unless the instructor has received his course card.

The College believes that regular and punctual class attendance is important to a high standard of work. Each instructor makes his own

regulations regarding attendance requirements. Students finding it necessary to be absent from college should obtain the approval of the President's secretary. Freshmen who are absent because of illness should secure a health excuse from the Health Office and present it to each of their instructors.

Any member of the faculty may exclude from his course any student who has neglected the work of the course, or is discourteous, or persists in practices annoying to the instructor or the class.

CHANGES OF PROGRAM

Necessary program changes may be made during the first four weeks through the Registrar's office with the consent of the student's adviser. Thereafter no program changes may be made. Exceptional cases, however, may be referred to the Scholarship Committee.

To drop a course, the student's procedure is as follows: (1) obtain his course card from instructor, (2) have it signed by adviser, and (3) turn it in at the Registrar's office. To enter a new course, the student should (1) obtain a "Permit to Enter" card from the Registrar, (2) have it signed by his adviser, and (3) exchange it at the Registrar's office for a course card which is filed with the instructor.

WITHDRAWAL FROM COLLEGE

Upon petition, an honorable dismissal may be granted to any student in good standing, provided arrangements have been made with the Registrar.

Students who withdraw after the first four weeks of any semester shall be given "W's" or "F's" depending on the quality of their work. During the last four weeks of the semester, students who have to drop out of college because of illness or other unavoidable circumstances may petition for Incomplete grades. This privilege shall be granted only to those whose work is of passing grade at the time of withdrawal.

Students who neglect to comply with these regulations shall have their courses automatically reported as Failures.

REPORTS TO STUDENTS

At the end of the semester, reports are given to the students, the regular marking system being used.

Mid-semester reports are made to students doing unsatisfactory work. These reports are followed by conferences with the President or other members of the administrative staff. Students having particular difficulties in certain subjects are periodically interviewed by the President.

CREDIT BY EXTENSION OR CORRESPONDENCE

Students regularly enrolled in the College may be admitted to extension classes upon the approval of the adviser and the President of the College. In such cases the combined program shall be subject to the established load limitations for regular students.

The maximum credit toward the minimum degree and credential requirements is set at 30 semester units of either extension or correspondence work, or any combination of both taken in a California State

College or other reputable institution. Of these 30 semester units, not more than 15 may be accepted until the student has completed a semester or quarter of full-time work in a California State College, or a comparable institution, with a scholastic average of 1.5 or above for such residence work.

An exception to the above ruling is made in the case of returning service men who may receive credit for all extension and correspondence courses which they may have completed, provided the courses are of college caliber, and that the applicant meets the college entrance, residence, and pattern requirements for a degree. The College further reserves the right to administer examinations covering any or all such courses for which credit is asked.

Within the above limits, the College shall have the right to pass upon the acceptability of extension and correspondence work as applicable toward credential or departmental requirements.

Neither extension nor correspondence credits shall be counted toward the residence requirements.

PROBATION AND DISQUALIFICATION

A student will be placed on probation whenever his cumulative record shows a grade point deficiency of 10 or more. He will remain on probation until the deficiency is decreased to less than 10, or until he is disqualified.

A student on probation shall be disqualified if his grade point deficiency increases by five or more over any minimum which he has reached while on probation.

Any student whose semester index falls below a "D" average (i.e., if he has a minus index) shall be disqualified.

Any student whose cumulative index is below a 1.00 shall be placed on warning.

Students whose personal conduct is unsatisfactory may be disqualified by administrative action at any time.

A student who has been disqualified for unsatisfactory scholarship may apply through the Registrar for re-entrance upon probation after the lapse of one semester.

FEES AND EXPENSES

REGULAR FEES

Payable by all students taking more than 5 units at the time of registration. These are all required by the State except as noted otherwise.

Registration fee—per semester-----	\$6 50
Materials and service fee—per semester-----	4 50

STUDENT BODY FEES

	<i>Fall Semester</i>	<i>Spring Semester</i>
Incidental fee (Not a State fee)-----	\$17 50	\$13 50
(New students -----)		\$17 50)

(This fee entitles the student to membership in the Associated Students, services of the Physical Education Department, Health and Hospitalization services, an installment on Alumni dues, subscriptions to the Lumberjack and the Sempervirens. The Publications fee is collected only once during the year.)

Diploma fee at graduation :

With leather portfolio-----	2 50
Without leather portfolio-----	1 00

OCCASIONAL FEES

Registration fee for students taking 5 semester units or less—per unit-----	\$2 50
Materials and service fee for students taking five units or less—per unit-----	50
Extension fee—per unit-----	6 00
Late registration fee—regular students only-----	1 00
State credential fee—paid directly to Registrar's office—each credential-----	3 00
Special final examinations—each examination-----	1 00
Change of program fee (Limited to regular, or regular to limited, or reduction in limited) -----	50

SUMMER SESSION

Tuition fee	
Regular session (6 weeks, 4-6 units)-----	\$30 00
Less than 4 units, per unit-----	6 00
Less than 4 weeks, per week-----	6 00
Summer session lecture and recreation fund (not required by State)	
4 weeks or more-----	50
Less than 4 weeks-----	25
Summer session health and physical education fee	
4 weeks or more-----	50
Less than 4 weeks-----	25
No late registration fee is charged in summer session.	

AUDITORS

Persons enrolled in college classes as auditors only are subject to the above fees in the same manner as those enrolled for credit.

REFUNDS

Students who find it necessary to withdraw from college may, under conditions prescribed by law, obtain a refund of tuition fees. Application for refund must be made not later than three weeks from the date

of the student's registration. In case of illness, a duly authorized representative of the student may file the application for him. When a refund is granted, a charge of \$1.50 per semester is made to cover costs of registration. Students who wish to make application for a refund should consult the Controller for further information concerning the regulations which govern such procedure.

STUDENT BODY FEES. These fees are not refunded if a student has participated in any student body activity.

SUMMARY OF EXPENSES FOR REGULAR STUDENT

	Expenses at Registration (Twice a year)	Approximate Monthly Expenses		Total for School Year (9 months)	
		Minimum	Maximum	Minimum	Maximum
Registration fee -----	\$6 50	----	----	\$13 00	\$13 00
Materials and service fee----	4 50			9 00	9 00
Student organization expenses (Club dues, yearbook, hos- pitalization, physical educa- tion, and alumni fees, etc.)	25 00	----	----	50 00	50 00
Books, papers and supplies (approx.) -----	15 00-50 00			30 00	100 00
Sub-total -----				102 00	172 00
Board and room-----		\$45 00	\$70 00	405 00	630 00
Miscellaneous (Entertain- ment, laundry, cleaning, etc.) -----		10 00	25 00	90 00	225 00
Total -----				575 00	\$1,027 00

Bus fare: Eureka-Arcata, \$5 per month.

STUDENT EMPLOYMENT SERVICE

Opportunities for part-time employment are available for deserving students. The College employs as much student help as possible, particularly in the Commons, and for other types of work on the campus. The College also has requests for assistance for light housework, care of children, janitorial and clerical work. Application for employment should be made to the Dean of Students before registration.

For information in regard to loans and scholarships which are available, see page 33.

HONORS, SCHOLARSHIPS AND LOANS

SCHOLASTIC HONORS

GRADUATION HONORS are awarded to graduating students at Commencement, subject to the approval of the faculty, on the basis of their scholastic index achieved in their undergraduate work as follows:

Index 2.00-2.34 — with honor

Index 2.35-2.74 — with high honor

Index 2.75-3.00 — with highest honor

SEMESTER HONORS are given to all regular students who during a semester complete 12 or more units of work carrying a letter grade and who achieve a scholastic index of 2.00 with no *F*'s or *Incompletes*. These honors are announced at the Chi Sigma Epsilon honor assembly early in the following semester.

HONOR SOCIETIES

CHI SIGMA EPSILON is the upper division honor society, which elects members during the first part of each semester. High scholastic attainment, qualities of leadership, and high ideals of character form the basis of selection.

RHO SIGMA is a sophomore honor society, sponsored by Chi Sigma Epsilon, whose active members select them each semester from the sophomore class on the same basis as election to Chi Sigma Epsilon.

SCHOLARSHIPS

A number of scholarships in varying amounts have been set up by individuals and organizations to provide recognition and assistance for worthy students. Some are entrance scholarships to be awarded to high school seniors, and others are to be awarded to students already enrolled in college. Further information concerning the scholarships or the method of application may be obtained from the office of the Registrar.

THE ANNETTE PARTON JOHNSON PRE-NURSING SCHOLARSHIP. This annual award of \$50 commemorates the courage of Annette Parton Johnson, local nurse, who was credited with saving the lives of the patients in the old Trinity Hospital when it was destroyed by fire. The award was established by community agencies in appreciation of her service. It is open either to a high school graduate who will enroll in the pre-nursing course at Humboldt State College or to a college student already enrolled in that curriculum. High school students who are interested should submit transcripts of record and letters of recommendation from either the high school principal or the girl's adviser.

THE ARCATA ROTARY CLUB HONOR ENTRANCE SCHOLARSHIP. This annual scholarship of \$50 is offered by the Arcata Rotary Club to an outstanding graduate of Arcata Union High School who enrolls as a beginning freshman at Humboldt State College. Applicants must pre-

sent transcript evidence of high scholarship in the work taken during their last three years in high school, with not less than 10 recommending units from high school as a minimum scholarship requirement. They must also be recommended by the principal as persons of good character who, as high school students, have participated in school activities in a commendable manner.

THE ASSOCIATED BUSINESS GIRLS' SCHOLARSHIP. The Arcata Chapter of the Associated Business Girls awards a girl graduate of the Arcata Union High School a scholarship sufficient for the payment of all fees for the first year of the commercial course.

THE BELLE W. GLASER MUSIC SCHOLARSHIP. Miss Belle Dickson, Assistant Professor of Education at Humboldt State College, has established this scholarship in honor of her aunt, Mrs. Belle W. Glaser, a prominent San Francisco musician. The purpose of the award is to provide a fund to encourage students who have demonstrated ability and interest in the field of music to continue their studies in this field. The award (\$50) is to be used either for tuition, fees, or for private music lessons. Any student with junior standing or higher, of satisfactory scholarship and character, is eligible to receive the award. Other things being equal, preference shall then be given on the basis of financial need.

THE CHI SIGMA EPSILON SCHOLARSHIP. This scholarship, which covers the general student fees for the fall semester of the freshman year, is donated by Chi Sigma Epsilon to a high school graduate of Humboldt or Del Norte County on the basis of scholarship, character, and participation in activities while in high school.

THE CRAIG SCHOLARSHIPS. Two scholarships have been established by Miss Ann V. Craig, former member of the College faculty, in honor of her father and mother. The Edith R. Craig Scholarship is presented to a freshman student chosen at the end of his or her freshman year at the College. The John F. Craig Scholarship is presented to a sophomore student chosen at the end of his or her sophomore year at the College. Selection of the recipients is made by a faculty-student committee of three from those students in the respective classes who have a scholarship index of 2.0 or better and who have participated actively and commendably in at least one extra-curricular activity. Other considerations being equal, preference is given to the students with the greatest financial need. Each scholarship consists of \$50 to cover the expenses of registration.

THE HENRY F. BRIZARD MEMORIAL SCHOLARSHIPS. Three honor scholarships have been established by Mrs. Henry F. Brizard, in memory of her husband, who was for many years an active friend of Humboldt State College. These scholarships were established to encourage deserving high school graduates to continue their studies, and students who have already demonstrated their ability at college to do advanced work, in the hope that such students, conformant to the ideals of Mr. Brizard, will render a valuable service to society.

The honor entrance scholarship (\$100) will be awarded to an Arcata Union High School graduate who presents evidence, by transcript, of

high scholarship (at least 10 recommending units) in work taken during his last three years in high school, and is recommended by his principal as a person of good character.

An honor upper-division scholarship (\$150) will be awarded to a worthy student who has completed two years of work (60 semester units) at Humboldt State College with a scholarship index of not less than 2.0 (*B* average) and has participated commendably in at least one extra-curricular activity.

A special honor scholarship (\$100) will be awarded to a worthy student who has completed at least 30 semester units of work at Humboldt State College with an index of 1.50 or better, who has distinguished himself in any one special field, as music, drama, art, English, sciences, etc., and who has participated commendably in at least one extra-curricular activity.

THE HUMBOLDT COUNTY FEDERATION OF WOMEN'S CLUBS SCHOLARSHIPS. Each year the Humboldt County Federation of Women's Clubs awards scholarships of \$50 each in voice and musical instruments. The music scholarships provide private instruction at the College. Recipients are determined by an annual contest at the College in the fall. They must be high school graduates of good standing and must major or minor at the College in the field in which the award is made.

If funds are available, one scholarship may be granted in another field. In the past, this additional scholarship has been awarded in the fields of pre-nursing and home economics.

THE KRAMER MEMORIAL SCHOLARSHIP. This award of \$200 is sponsored by the Humboldt County Medical Society in honor of Doctor Lowell G. Kramer, formerly of Fortuna, California, who lost his life in military service in World War II. It is to be awarded annually to a student enrolled in Humboldt State College on the basis of an essay contest dealing with a theme closely related to medical science or services, public health, or nursing. Essays must be filed not later than April first of each year.

THE LAURA P. MAHAN SCHOLARSHIPS. Four scholarships carrying stipends of \$160 each are available to Humboldt State College students each year under the terms of the will of Laura P. Mahan. Two of the scholarships are in the field of art, and two are open to other college students. The awards are limited to graduates of Humboldt County high schools and to bona fide residents of Humboldt County.

THE MUSICIANS' UNION, LOCAL 333, awards an annual scholarship of \$100 to an entering student with outstanding promise in music. The award may be applied toward general or specialized work in music or may be applied toward general college fees. The recipient should major or minor in music at Humboldt State College.

THE QUOTA CLUB SCHOLARSHIP IN HOME ECONOMICS. The Quota Club of Eureka has established a scholarship of \$100 to be awarded to a student majoring in Home Economics at Humboldt State College. The recipient is to be selected by the faculty Committee on Scholarship Awards, upon the recommendation of the Home Economics Department.

THE SOUTH FORK P. T. A. SCHOLARSHIP. The Parent-Teacher Association of the South Fork Union High School awards a scholarship sufficient for fees and books to an outstanding and deserving graduate of that school who enrolls as a freshman student at Humboldt State College.

THE ZETA ETA SCHOLARSHIP IN ART. Zeta Eta Chapter of Beta Sigma Phi offers an annual scholarship of \$60 to a sophomore woman student registered at Humboldt State College and majoring in Art. Eligibility will be determined by the faculty Committee on Scholarship Awards upon the recommendation of the Art Department.

THE CALIFORNIA CONGRESS OF PARENTS AND TEACHERS SCHOLARSHIPS IN ELEMENTARY EDUCATION. To stimulate interest in elementary education, a number of \$300 scholarships have been provided by the California Congress of Parents and Teachers. These scholarships are available to senior students in high school or to college students enrolled in the general elementary teacher training program.

VOCATIONAL REHABILITATION. The Bureau of Vocational Rehabilitation, State Department of Education, offers its service to students who have an employment handicap resulting from physical disability of any kind. Included are vocational counseling, the payment of tuition and fees, and the provision of textbooks without charge.

MISCELLANEOUS AWARDS

ARCATA KIWANIS CLUB AWARD. The Arcata Kiwanis Club awards a \$10 prize each year to the Arcata High School graduate who has made the highest scholastic record at Humboldt during his freshman year.

AWARD FOR CREATIVE WRITING. President and Mrs. Gist have provided an annual prize of \$10 to stimulate creative writing. The arrangements for submitting manuscripts and the selection of the recipient are in the hands of the Department of English.

CHI SIGMA EPSILON FRESHMAN AWARD. This award is presented each spring to the student who has made the highest scholastic record in the freshman class at Humboldt State College.

FACULTY WOMEN'S GIFT. The Faculty Women's Club of the College presents a monetary gift to the graduating woman who has achieved the highest scholastic average during her four-year course at Humboldt State College.

PHI BETA KAPPA MEDAL. This medal is presented at Commencement by the Phi Beta Kappa members of the faculty to the student of sophomore standing or higher who makes the highest scholastic average during the year.

LOAN FUNDS

GENERAL STUDENT LOAN FUND. A small loan fund is at the disposal of the College to assist worthy students in meeting their necessary expenses. It has generally been the policy to make this fund available to students in the upper division courses. Students needing financial assist-

ance are advised to discuss their problems confidentially with the Dean of Women, Dean of Men, or the President. Application for all loans should be made through the Comptroller.

SPECIAL STUDENT LOAN FUND. The faculty and certain organizations in Humboldt County have provided a special loan fund to assist worthy students in registration expenses. The student should file his application prior to registration. Rarely are loans made to new students.

ROTARY CLUB LOAN FUNDS. The Rotary Clubs of Arcata and Eureka have established loan funds available for worthy students recommended by the President.

THE BUSINESS AND PROFESSIONAL WOMEN'S LOANS. The Business and Professional Women's Club of Eureka maintains a fund from which scholarships are awarded on a loan basis to women selected by the Club.

SEQUOIA MUSIC CLUB LOANS. The Sequoia Music Club awards on a loan basis two annual scholarships of \$50 in music. These scholarships provide for a year of private lessons at the College in either voice, piano, violin, or 'cello. Recipients are determined by a contest at the College in the fall. They must be high school graduates of good standing and must major or minor in music at the College for the duration of the award.

DEGREES, CREDENTIALS AND CURRICULA

GENERAL STATEMENT

The work offered by the College falls principally into two groups: (1) Teacher education curricula, administered by the School of Education; and (2) Liberal Arts Curricula, administered by the School of Arts and Sciences. A more detailed outline is as follows:

I. Teacher Education Curricula

A. Graduate work leading to

1. The General Secondary Credential with majors in:

English-Speech (p. 103)

Life Science and General Science (p. 112)

Physical Education (p. 92)

Social Science (p. 127)

Speech-English (p. 85)

2. Administration and Supervision Credentials as follows:

Elementary School Administration Credential (p. 63)

Elementary School Supervision Credential (p. 64)

Special Supervision Credential (p. 64)

B. Work leading to the A.B. Degree with the following credentials:

General Elementary Credential (p. 56)

General Junior High School Credential (p. 57)

Kindergarten-Primary Credential (p. 56)

Special Secondary Credentials in:

Art (p. 66)

Home Economics (p. 71)

Music (p. 79)

Physical Education (p. 93)

Combinations of the foregoing credentials may be arranged.

II. Liberal Arts Curricula

A. The A.B. Degree with majors in:

Allied Arts (p. 66)

Art (p. 66)

Biological Sciences (p. 112)

Botany (p. 114)

Business Administration

(p. 130)

Economics (p. 130)

English (p. 103)

History (p. 129)

Home Economics (p. 71)

Music (p. 79)

Nursing (p. 100)

Pre-Medical Sciences (p. 114)

Social Sciences (p. 127)

Social Service (p. 129)

Speech and Dramatics or

Speech-Radio (pp. 86, 87)

Wildlife Management (p. 115)

Zoology (p. 121) and a

Group Major (p. 145)

B. Lower Division curricula:

1. Terminal Vocational:

Drafting

Journalism

Photography

Recreational Leadership

Secretarial Training

2. Preparatory for transfer to other institutions (commonly designated as Pre-Professional):

Agriculture

Architecture

Dentistry

Engineering

Forestry

Law

Letters and Science

Library Science

Medicine

Mortuary Science

Nursing

Optometry

Pharmacy

Veterinary Science

GENERAL REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

All students who are candidates for the A.B. Degree must comply with certain basic requirements established by the State Department of Education and the College. Additional requirements may be prescribed for a specific curriculum, but the requirements common to all degree curricula are as follows:

UNITS. A minimum of 120 units is necessary for graduation. Of these at least 40 units must be selected from Upper Division courses, and not more than 40 units may be taken in any one subject field.

RESIDENCE. At least 24 of the 120 unit total must be completed at this College in residence. Six of the last 30 units taken for a degree must be taken *in residence* at the College.

SUBJECTS. All candidates for the degree must take:

*Elem. Algebra and Plane Geometry (if not taken in High School)

Social Sciences -----12 units

(Including the statutory requirement in U. S. History and Constitution. See statement below.)

Eight of the 12 units required must be taken in the lower division. At the discretion of the division, one year of social science taken in the senior year of high school for which recommended grades were received may be substituted for three units of social science.

Courses applicable toward fulfillment of this requirement may be chosen from the following: Economics, Geography, History, Philosophy, Political Science, Psychology 2, and Sociology.

Natural Sciences -----12 units

Eight of the 12 units required must be taken in the lower division. At the discretion of the division, chemistry or physics taken in the senior year of high school for which recommended grades were received may be substituted for three units of biological or physical science.

English (in the lower division) ----- 6 units

Psychology (in the lower division) ----- 3 units

Physical Education ----- 2 units

Electives from Philosophy, Art, Music, Speech Arts, Foreign

Language, or Literature (English 46A-B or 74A-B) ----- 6 units

A physical education activity course is required each semester for all lower division students taking 12 units or more, unless excused by the chairman of the Division of Health and Physical Education.

A knowledge of the provisions and principles of the Constitution of the United States and of American History is required of all candidates for a bachelor's degree. The requirement may be satisfied in one of the following ways:

- (1) By passing an examination in American Government and American History.

* The requirements in Elementary Algebra and Plane Geometry may be fulfilled by passing an examination given by the Mathematics Department.

- (2) By completing in the College one course in each of the following groups:
- (a) Political Science 1A or 51
 - (b) History 8B, 70, 181, Economics 113 or six units from History 171, 172, or 174 (or equivalent).
- (3) By presentation of a certificate of completion of an appropriate course or courses at another accredited collegiate institution.

Note: Candidates for the General Secondary, Junior High School, General Elementary, or Kindergarten-Primary Credentials must fulfill the requirement in U. S. Constitution in an accredited California institution.

MAJORS AND MINORS. Each candidate must complete one major and one minor.

A *major* is a sequence of courses arranged to provide concentration in a field of special interest to the student. The student should select his major field with care, in accordance with his interests and objectives. Although it is possible to transfer from one major field to another, it is usually done at the expense of time and units.

A distinction is made between a teaching major in connection with the Junior High School Credential (and designated as a Junior High School major) and the major completed by students interested in securing a General Secondary Credential, or an A.B. Degree in Liberal Arts without a teaching credential.

The Junior High School major is composed of not less than 24 units at least 12 of which must be in the upper division, and is available in the following fields:

Art	Industrial Education
Biological Sciences	Music
English	Physical Education
Health and Hygiene	Social Sciences
Home Economics	Speech and Dramatics

Liberal Arts and Secondary majors usually require 24 units of upper division work, together with the necessary lower division prerequisites. Since the majors for the Secondary Credential are field majors (e.g., social science) instead of subject majors (e.g., history), the requirements often exceed the minimum. Greater concentration may be more desirable for students who aspire to work toward advanced degrees. Adjustments in the program for such students should be discussed with faculty advisors.

Students not interested in teaching may secure an A.B. Degree in one of the liberal arts curricula, completing a major in an appropriate field. These curricula provide a broad cultural and professional background for general education, business, government positions, law, medicine, church work, social service work, youth work, radio, or for graduate study or research.

For a detailed description of the requirements for the A.B. Degree with a secondary or a liberal arts major, see the respective divisions as indicated. Fields in which these majors are offered are listed on page 38.

A *minor* is a sequence of courses in a chosen field of not less than 12 units (except the teaching minor for the General Secondary Credential, where the minimum is 15 units), at least six of which must be in the upper division. In many cases, however, requirements within subject fields exceed this minimum.

In general, minors are designed to give breadth and background. In the curricula leading to teaching credentials they may serve the additional purpose of providing a second subject which the student may teach if necessary. Some combinations are better than others for transfer credit; some are better as teaching combinations. The future plans of the candidate will determine in part what is desirable to choose for minor fields.

Minors are available in the following fields:

Art	Industrial Education
Biology	Journalism
Botany	Mathematics
Business	Music, Vocal or
Chemistry	Instrumental
Economics	Physical Education
Education	Political Science
English	Radio
French	Sociology
Health and Hygiene	Spanish
History	Speech and Dramatics
Home Economics	Wildlife Management
	Zoology

Candidates for the General Secondary Credential may complete teaching minors in the following fields:

Art	Industrial Education
Biology	Journalism
Business Education	Mathematics
Economics	Music
English	Physical Education
Health and Hygiene	Radio-Speech
History	Social Studies
Home Economics	Speech

Students interested in a General Secondary minor in French or Spanish should consult the department.

The requirements for each major and minor listed are to be found stated in detail at the beginning of the respective divisional sections under "Courses of Instruction."

SCHOLARSHIP. A scholarship average of "C" (index of 1.0) is required for graduation with the bachelor's degree in all work taken, and in the majors and minors, as well.

LOWER DIVISION CURRICULA

The College offers two types of lower division curricula. The first is terminal in character and is offered in the following fields:

Secretarial Training (p. 132)

Journalism (p. 105)

Drafting (p. 75)

Recreational Leadership (p. 94)

Photography (p. 67)

The second type comprises a number of lower division curricula the continuance of which in the upper division the College is not equipped to provide. Most of such curricula are pre-professional or technical in character, and are designed to meet the needs of those students who plan to obtain a Bachelor of Arts or a Bachelor of Science Degree or a certificate of completion at some other institution, but who wish to do the lower division work at Humboldt. *These students should acquaint themselves with the particular requirements of the institutions to which they intend to transfer and should ascertain which of the courses offered at the College will be accepted in preparation for their chosen fields of study.*

The following curricula are the more common fields of study in which the College offers lower division courses. These curricula are suggestive rather than fixed, since the specific course requirements of other institutions may vary. Nor is the list of lower division curricula complete; others may be arranged if the demand presents itself.

Since most of the students who take their lower division work at this College and then transfer elsewhere for the upper division work transfer to the University of California at Berkeley, the curricula described below are in most instances devised to meet the requirements of the University.

In some instances the University revises its requirements after the publication of this catalog, and the student is therefore cautioned that he should be sure to consult the latest bulletin from the University.

Students transferring to the University of California must meet (a) the entrance requirements of the University; and (b) the lower division requirements for the specific curricula involved.

To aid the student in planning his course, the requirements for the Degree of Associate of Arts, which the University grants upon completion of the lower division work, are given here:

REQUIREMENTS FOR THE DEGREE OF ASSOCIATE IN ARTS UNIVERSITY OF CALIFORNIA

(See University of California Circular of Information for details)

- (a) *Subject A.* (Completion of English A, 1A, or 1B at Humboldt satisfies this requirement.)
- (b) *Foreign Languages.* At least 16 units in not more than two languages, with not less than 4 units in any one language. The first two years of high school work in a foreign language will be counted in satisfaction of 4 units of this requirement and each year thereafter as 4 units.
- (c) *Mathematics.* Elementary Algebra and Plane Geometry.
- (d) *Natural Science.* Twelve units chosen from the following: Bacteriology, Biology 10A-10B, Botany 1A, 1B, Chemistry 1A-1B, 5, 8, Geology 1A, Physics 4A-4B-4C, 2A-2B, 3A-3B; Physiology, Zoology 1A-1B.

- (e) *Additional.* A year course of 5 or 6 units in each of four of the following groups (one of which may be postponed to the upper division) :
- (1) English 1A-1B; Speech 1-2, or 1-3.
 - (2) Foreign Language (additional to b).
 - (3) Mathematics (two courses from: Math. C, 2, 3A, 3B).
 - (4) Social Science, Economics 1A-1B, History 4A-4B, Psychology 1-2, Political Science 1A-1B).
 - (5) Philosophy 6A-6B.
 - (6) Fine Arts (Art 1, 2, Music 3A, 3B, 101, 102, English 46A, 46B, 74A, 74B, Speech 2, 102).

The student should also include in his lower division program courses in U. S. History and Government to fulfill legal requirements for graduation.

PRE-AGRICULTURE

AGRICULTURAL ECONOMICS

Subject A	Units
Botany, Bacteriology, Chemistry, Geology, Physics, Physiology, Zoology, or additional mathematics	18
Mathematics (including Trigonometry)	9
(High School work at the rate of 3 units for each year of high school mathematics may be offered toward this requirement)	
English or Public Speaking	6
Business Administration or Economics	15
Anthropology, Geography, History, Philosophy, Political Science, Psychology or Sociology	12
Physical Education	2
U. S. History and Government	4

ANIMAL SCIENCE

Subject A	Units
Chemistry	13
Botany	4
Physics	6
Economics	6
Zoology	13
Bacteriology	5
Geology or Soil Science	3
English	3
*Mathematics (Including Trigonometry)	9
U. S. History and Government	4
Physical Education	2

PLANT SCIENCE

Subject A	Units
Chemistry	16
Botany	8
Physics	6
Bacteriology	5
Economics	3
English or Public Speaking	3
*Mathematics (Including Trigonometry)	9
Physical Education	2
U. S. History and Government	4
Zoology (Including Entomology and Genetics)	9
Electives to total at least 60 units.	

* See explanation under Agricultural Economics above.

It is also possible to complete at least one year of the program in Entomology and Parasitology, and in Soil Science at Humboldt State College.

PRE-ARCHITECTURE

Students who expect to transfer to Stanford University to study architecture may profitably spend two years at Humboldt State. This two-year course should include the following: English 1A-1B, Mathematics 3A-3B, French 2A-2B, Civil Engineering 2, and as much art as practicable.

If the study of architecture is to be pursued at the University of California the student may find it advantageous to enroll here if he has entrance deficiencies to remove. While he is thus engaged he should also include in his program Physics 4A-4B, Mathematics E, and Industrial Education 7A-7B, if he has not had mechanical drawing in high school. It is necessary to meet the requirements for the Associate in Arts Degree to enter the School of Architecture at the University of California. (See page 42.)

PRE-DENTAL

Subject A	Units
English 1A-1B or Speech 1-2 or 1-3-----	6
Physical Education-----	2
Science-----	28-32
(a) Chemistry 1A-1B, 8, 9 or 5-----	16
(b) Physics 2A-2B and 3A-3B or 4A-4B-----	8
(c) Zoology 1A-1B-----	8
Trigonometry (if not taken in high school)-----	3
U. S. History and Government-----	4
Electives selected from the following groups-----	18
(a) Group I: 2 year-courses selected from	
Economics 1A-1B	
History 4A-4B, 8A-8B	
Mathematics	
Political Science 1A-1B	
Psychology 1-2	
(b) Group II: 1 year-course from Group IIA or any 2 semester courses from Group IIB	

IIA

A year sequence of any foreign language
 English 46A-46B, 74A-74B
 Music 101-102
 Philosophy 6A-6B

IIB

Art 2
 Music 3A, 3B
 Any two semesters of a foreign language, provided a minimum of 6 units have been completed in the same language.

ENGINEERING

All students who expect to complete engineering curricula at the University of California are required to complete the following general requirements:

Subject A (English A, 1A or 1B at Humboldt meets this requirement)	Units
U. S. History and Constitution-----	4
Physical Education-----	2
Electives chosen from two of the following groups:-----	12
1. English, Public Speaking	
2. Foreign Language	
3. Business Administration, Economics, Political Science	

4. Anthropology, History, Psychology, Sociology
5. Biological Sciences
6. Fine Arts and Philosophy

Note: Students in Industrial, Agricultural, and Mechanical Engineering must select 3 units from group 1, and the 9 additional units from two of the other groups.

Attention is also called to the fact that admission to the College of Engineering will be based primarily on the results of an entrance examination, details of which may be learned by writing to the Dean of the College of Engineering, Berkeley, California.

Students may complete approximately two years of engineering work at Humboldt State College in the fields of civil, electrical, industrial, mechanical, and petroleum engineering, and at least one year in the fields of agricultural, metallurgical, mining engineering and economic geology.

PRE-FORESTRY

Subject A	Units
Botany 1A-1B	8
Chemistry 1A, 8	8
Engineering 1A-1B	6
Economics 1A-1B, 40	9
Geology 1A	3
Mathematics 3A-3B	6
Physics 2A-2B, 3A-3B	8
Physical Education	2
U. S. History and Constitution	4
Zoology	3
Choice of Public Speaking, English	6

PRE-LEGAL

Many colleges of law now require a bachelor's degree as a basis of admission. Students who expect to study law are advised to secure a degree if possible, majoring in social sciences, English, speech, or selecting a group major.

Those who expect to enroll in a college of law requiring only two years of college work usually plan the lower division work to comply with the requirements for the Associate in Arts Degree at the University of California (see page 42) or with the requirements of a specific College of Law.

PRE-LIBRARY SCIENCE

A good general education is the best basis for librarianship. Four years of college, followed by one or two years of professional study in an accredited library school, is the usual requirement. A student should plan his undergraduate course so as to acquire a good background in history, and in American, English and foreign literatures, and a working knowledge of at least two foreign languages, especially French and German. Study in the social sciences, psychology and education, and the physical sciences is important, and intensive study in some one field, such as chemistry, music, art, political science, education, or business is desirable.

PRE-MEDICAL

An A.B. Degree is desirable as a basis for admission to medical school, and wherever possible, students interested in medicine are advised

to complete the requirements for the A. B. Degree with a major in pre-medical sciences. (See page 114.) This curriculum is designed to meet the requirements for an Associate in Arts Degree at the University of California, and the student who wishes to transfer after two years at Humboldt may plan his program to conform with those requirements (see page 42).

Pre-professional courses may also be arranged for dental assistants, medical technologists, laboratory technicians, occupational or physical therapists, and other related specialists.

PRE-MORTUARY SCIENCE

Beginning with 1948, two years of college work will again be required for admission to a college of mortuary science.

Subject A	Units
Art 1, 20A	5
Business Administration 14A-14B, 18, 118	12
English 1A-1B	6
Health and Hygiene 1, 160	2
Physical Education	2
Science	29
Anatomy 66	3
Bacteriology 1	5
Chemistry 1A-1B	10
Zoology 1A-1B, 160	11
Electives	4

PRE-NURSING

(See page 100.)

PRE-OPTOMETRY

Subject A	Units
Speech 1, 3	6
Foreign Language*	16
Chemistry 1A, 8	13
Bacteriology	5
Physics 2A-2B, 3A-3B	8
Anatomy 66	3
Mathematics 3A	3
Physical Education	2
Psychology 1-2	6
Zoology 1A	4
Year Courses*	6-12
U. S. History and Constitution	4

If the student has not had Mechanical Drawing in high school he should include it in his program as an elective.

PRE-PHARMACY

Subject A	Units
English 1A-1B or Speech 1 and 3	6
Mathematics C and D (if not taken in high school), ¹ 1 or 3	3-9
Botany 1A	4
Zoology 1A-1B	8
Chemistry 1A-1B	10
Physical Education	2
U. S. History and Constitution	4

* See Associate in Arts Degree requirements, page 42.

¹ Students who present matriculation credit in these subjects should take a three- or six-unit course in history, psychology, foreign language or advanced work in mathematics.

PRE-VETERINARY MEDICINE

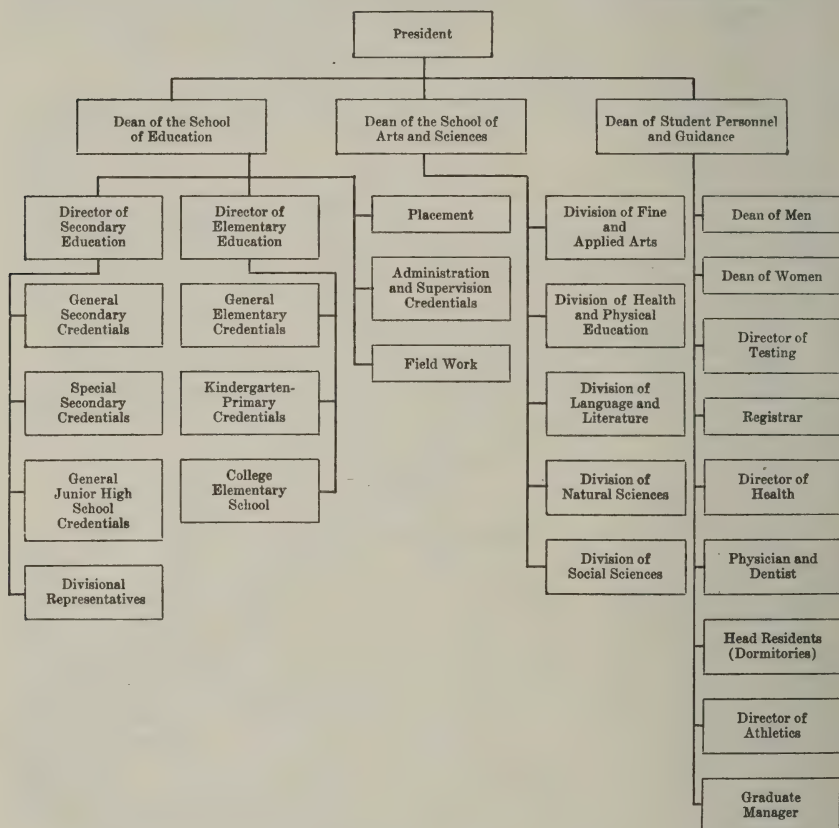
Students who plan to study Veterinary Medicine should plan their programs to conform to the requirements of the school to which they expect to transfer. In general, one year of pre-professional work may be taken before transfer. This year's work should include:

	<i>Units</i>
Chemistry 1A-1B -----	10
English 1A-1B -----	6
Social Science -----	6
Zoology -----	8

COURSES OF INSTRUCTION

ORGANIZATION

The following chart shows the functional organization of Humboldt State College:



As indicated by this chart, the curricular offerings of the College are organized into two main categories under the leadership of two academic deans, the Dean of Education, and the Dean of Arts and Sciences. The Dean of Education exercises general supervision over the courses offered in Education, and the entire teacher-education program, including the administration of the College Elementary School.

The Dean of the School of Arts and Sciences supervises the work of five divisions in Arts and Sciences; namely, the Divisions of Fine and Applied Arts, Health and Physical Education, Language and Literature,

Natural Sciences, and Social Sciences. Under these divisions, the fields of study are grouped as follows:

1. The Division of Fine and Applied Arts
 - a. Art
 - b. Home Economics
 - c. Industrial Arts
 - d. Music
 - e. Speech and Drama
2. The Division of Health and Physical Education
 - a. Physical Education for men and women
 - b. Health and Hygiene
3. The Division of Language and Literature
 - a. English Language and Literature
 - b. Foreign Languages and Literature
 - c. Journalism
4. The Division of Natural Sciences
 - a. Biological Sciences
Anthropology, Bacteriology, Biology, Botany, Paleontology, Physiology and Anatomy, and Wildlife Management
 - b. Physical Sciences
Chemistry, Geology, Physics
 - c. Mathematics
 - d. Engineering
5. The Division of Social Sciences
 - a. Business
 - b. Economics
 - c. Geography
 - d. History
 - e. Philosophy
 - f. Political Science
 - g. Psychology
 - h. Sociology

EXPLANATORY NOTE

Lower division courses carry numbers between 1 and 99, inclusive. They are designed for freshmen and sophomores, but are open to juniors and seniors as well. They do *not* count as upper division work in any department.

Upper division courses carry numbers between 100 and 199, inclusive. They are open only to students who have attained upper division status and who have completed a lower division course or courses deemed preparatory by the department concerned. Lower division students are not usually admitted to upper division courses except in special cases with the consent of the instructor.

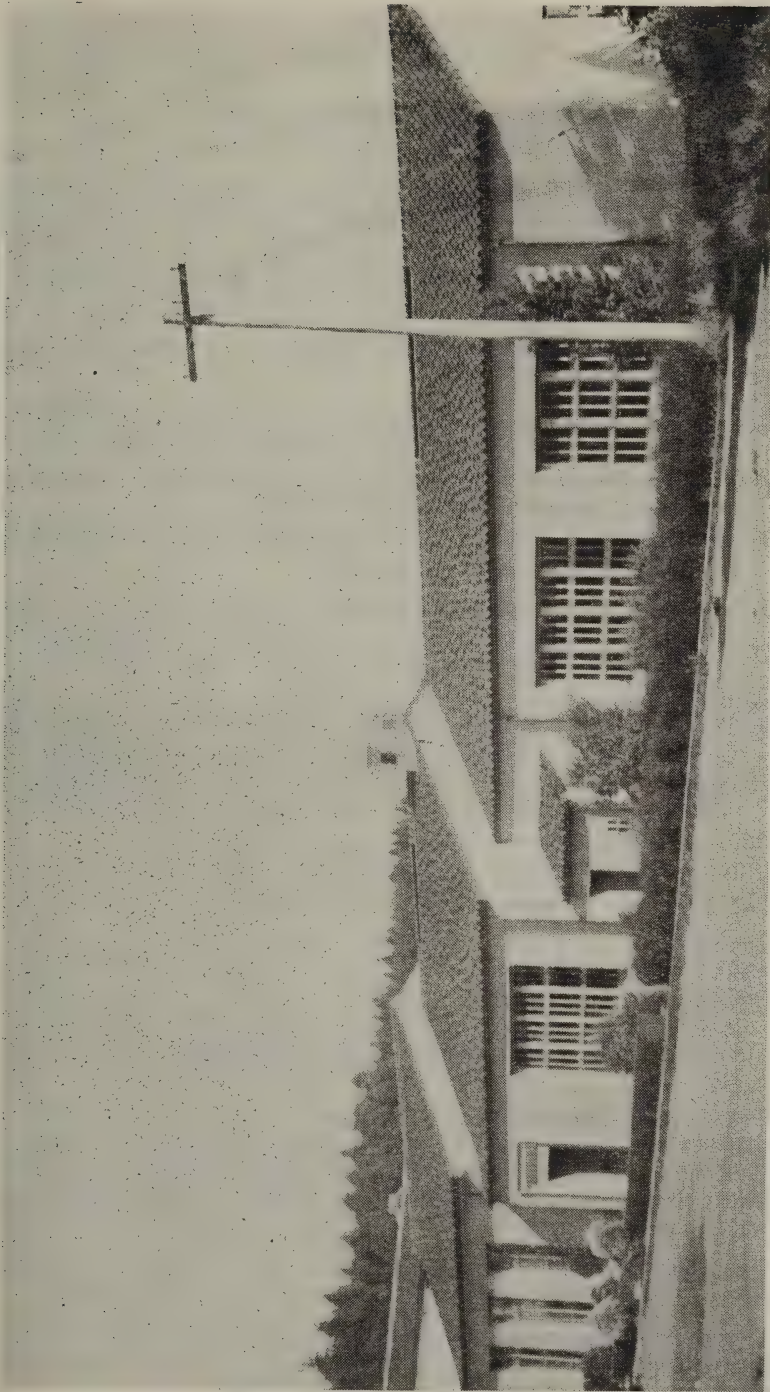
Graduate courses offered in fulfillment of requirements for the General Secondary Credential are given numbers between 200 and 299, and are open only to students who have been admitted to the graduate division.

Courses in directed teaching carry numbers between 300 and 399, inclusive. They are open only to upper division or graduate students.

Courses designated with a letter only (e.g., Mathematics C) are usually courses of high school level that are taught in college.

The semester in which a course is taught is indicated parenthetically after the title. Those courses designated "year" run consecutively through both the fall and spring semesters.

Because of varying exigencies from semester to semester in making up the schedule of classes, the instructor and time and place of meeting of each course of instruction are not given in the following descriptions. At the end of each semester a schedule of classes, containing such information for the following semester, is made up and mimeographed for distribution.



COLLEGE ELEMENTARY SCHOOL

SCHOOL OF EDUCATION

OBJECTIVES

It is one of the primary functions of the State Colleges to prepare teachers for the public schools of California. This training must be both (a) broadly cultural; and (b) professional. It is the responsibility of the School of Education to provide the professional phase of the students' preparation. To fulfill this obligation, the School seeks:

1. To develop an understanding of children; of processes of growth and learning.
2. To acquaint the students with the background, the objectives, and the responsibilities of the school in a democratic society.
3. To equip the prospective teachers with a knowledge of the subject matter and procedures of a modern school.
4. To provide opportunity for observation and for supervised teaching in a total modern school situation.
5. To assist these prospective teachers to formulate a modern, democratic, professional philosophy to enable them to meet happily and successfully the responsibilities and the opportunities of the teacher.
6. To arrange a program in consultation with other divisions of the College, which will enable the students to meet the general and the professional requirements established by the State Department of Education and the College for the following specific credentials:

Kindergarten-Primary
General Elementary
General Junior High School
Special Secondary Credentials in
Art
Home Economics
Music
Physical Education
General Secondary
Special Supervision (See page 63)
Elementary School Supervision (See page 64)
Elementary School Administration (See page 64)

THE KINDERGARTEN-PRIMARY CREDENTIAL authorizes the holder to teach in any kindergarten and in grades one to three in any elementary school. The General Elementary credential authorizes the holder to serve as a teacher in any elementary school, or in grades seven and eight of any junior high school.

THE JUNIOR HIGH SCHOOL CREDENTIAL enables the holder to teach in grades seven, eight and nine of any elementary or secondary school.

THE SPECIAL SECONDARY CREDENTIALS authorize the holder to teach the special subject covered by the credential in elementary and secondary schools.

For all of these credentials, the basic requisite is an A.B. Degree, and the program may normally be completed within a four-year span, or its equivalent.

THE GENERAL SECONDARY CREDENTIAL authorizes the holder to teach in the secondary schools and in grades seven and eight of any elementary school. To obtain this credential, more intensive specialization in the subject matter field is required, and a fifth year of graduate study must be completed.

It is obvious that the General Elementary and the General Secondary Credentials offer wider employment opportunities than do the credentials which are restricted to limited areas of instruction. It is therefore advisable to secure one of these credentials, if possible, in conjunction with the Kindergarten-Primary, Junior High School, or Special Secondary Credentials.

It should be noted, also, that positions are more readily available in the elementary schools than in the secondary schools, and that studies which have been made indicate a prolonged trend in that direction.

The School of Education will do all that it possibly can to assist the student to find the grade level or special fields of teaching for which he is best suited.

REQUIREMENTS

UNITS REQUIRED. For those credentials which may be granted concurrently with the A.B. Degree, 120 units are required. Not more than 40 units in Education or any one subject field may be applied toward the basic 120 units. For each additional credential in this group, 12 more units are required, with the further stipulation that if the basic course pattern can be satisfied with less than 12 additional units, the difference must be taken in electives outside the field of Education.

If a candidate already possesses an A.B. Degree, the minimum requirement is 24 units completed at this College. Of these 24 units, not more than 12 may be taken in the extension division of the College.

PHYSICAL EXAMINATION. Since physical health is important as a safeguard both to the prospective teacher and to the school pupils with whom he may be working, continuing emphasis will be placed on personal health factors. Formal examinations will be given at the time of entering the College, and again upon application for a teaching credential. Other check-ups may be required at various times.

CITIZENSHIP. Only United States citizens may become candidates for long-term teaching credentials. Aliens who have filed their first papers are eligible to apply for short-term credentials. Failure to complete the naturalization process within six months of the date of eligibility will result in the revocation of the credential. After an applicant has become naturalized, he may qualify for a long-term credential.

FUNDAMENTALS. All candidates for an elementary credential are required to show a working knowledge of the fundamental subjects in the elementary school curriculum—English language and literature, arithmetic, history, geography, and spelling. While some of these may be

met by satisfactorily passing certain college courses, others may be satisfied by passing standardized tests given in the class in Orientation 2. A satisfactory score in these achievement tests is prerequisite to Education 320 and 321. Candidates for secondary credentials may be required to pass other tests of general educational competence.

MAJORS AND MINORS. Candidates for the General Elementary and the Kindergarten-Primary Credentials must complete a major in Education and one minor. Candidates for the General Junior High School Credential are required to complete a major and a minor in subject fields taught in junior high school. Candidates for the Special Secondary Credentials must complete a major in the special field and one minor. Candidates for the General Secondary Credential must complete a major and a minor in subjects taught in the high school. The special secondary and the general secondary majors require 24 units of upper division work, and the secondary minor requires a minimum of 15 units, though departmental requirements often exceed this minimum. The list of available majors and minors is found on pages 38, 40 and 41.

SCHOLARSHIP

In addition to the requirement of a scholarship average of "C" for graduation with the A.B. Degree, the College requires that candidates for teaching credentials maintain a general scholarship average of "C" and a grade of "C" or better in all required courses in Education. A "C" average is prerequisite to Education 133 and to all directed teaching. Candidates for credentials other than the General Secondary must also maintain an average of "C" in the teaching major and minor. For the General Secondary Credential, candidates must maintain an index of 1.50 on all work taken in the upper division, 1.50 on all work taken in the major field, and 1.75 in all work taken in the Graduate year.

In their directed teaching candidates must do satisfactory work, i.e., equivalent to a grade of "C" or better. If a student teacher falls short of the required standards, he or she will be given an "incomplete" and allowed another semester's trial. If the second semester's work is unsatisfactory, it may be assumed that the candidate lacks the requisite qualities for successful teaching. However, every effort is made to ascertain whether or not the candidate possesses these qualities before allowing him to undertake directed teaching. Only a grade of + or "F" is given for directed teaching; no letter grades are given. The units of the directed teaching courses do not figure in the calculation of the candidate's scholarship index.

ADMISSION TO CREDENTIAL CURRICULA. At the end of the sophomore year, credential candidates make formal application for admission to the teacher training curricula. A faculty committee passes upon each applicant, taking into account the following factors: scholarship, completion of lower division requirements, professional aptitudes, physical fitness, speech and language usage, personality, character, and diversity of interests.

Prior to admission to the year of graduate study for the completion of the requirements for the General Secondary Credential, the qualifications of the candidate will be further studied on the basis of scholarship and general fitness for secondary teaching.

Those students who are approved for admission study first the introductory courses in Education, and eventually, in either semester of the senior or graduate year, engage in directed teaching under the guidance of a trained supervisor. In directed teaching at the elementary level, the time is divided between the lower and the upper grades, while at the secondary level, the student will be assigned to subject fields included in his major, minor, or both.

COURSE REQUIREMENTS FOR THE A.B. DEGREE WITH TEACHING CREDENTIAL

The sequence of required courses listed on the following pages is not inflexible, but is suggested as the one which eliminates program conflicts. Courses which are offered both semesters may be taken out of sequence without creating serious program conflicts. *Courses offered only once a year should be taken in the semester recommended in the sequence.*

Courses required for the completion of the teaching majors and minors referred to in the credential sequences are listed in detail under the various divisions. For example, the student who wishes to secure a junior high school credential with a major in music will find all of the requirements listed below except the detailed requirements for the major. Those he will find listed under "Music," on page 79.

Students who wish to secure a Special Secondary Credential will find the requirements listed under the appropriate division.

The following is the basic lower division program suggested for all those desiring the General Elementary, General Junior High School, or Kindergarten-Primary Credentials.

FRESHMAN YEAR

(Candidates who have not had Elementary Algebra and Plane Geometry in high school must enroll for subcollegiate, noncredit courses in these subjects.)

First Semester		Second Semester	
Subject	Units	Subject	Units
Biology 10A ¹ -----	3	Biology 10B ¹ -----	3
English A or 1A -----	3	English 1A or 1B -----	3
Health and Hygiene 1 -----	2	Music 10 * -----	3
Orientation II -----	1	Physical Education Activity -----	$\frac{1}{2}$
Physical Education 5 or 15 -----	$\frac{1}{2}$	Social Science -----	3
Social Science -----	3	Elective or Minor -----	3
Elective -----	3		
Total -----	15 $\frac{1}{2}$	Total -----	15 $\frac{1}{2}$

* Subject requirement may be satisfied by examination; no unit credit.

¹ Students minoring in Botany or Zoology substitute Botany 1A-1B or Zoology 1A-1B for Biology 10A-10B.

SOPHOMORE YEAR

First Semester		Second Semester	
Subject	Units	Subject	Units
Art 1	2	Physical Education Activity	$\frac{1}{2}$
Geography 5	3	Physical Science 5B	3
Music 60A	$\frac{1}{2}$	Psychology 1	3
Physical Education Activity	$\frac{1}{2}$	Social Science ¹	3
Physical Science 5A	3	Elective	$5\frac{1}{2}$
Speech 1	3		
Social Science ¹ or elective	2	Total	15
Total	14		

¹ Student must complete a minimum of 12 units of Social Science including fulfillment of requirement in U. S. History and Constitution. See page 39. Candidates for the General Elementary Credential are expected to complete from 14 to 16 units in Social Sciences.

GENERAL ELEMENTARY CREDENTIAL

JUNIOR YEAR

First Semester		Second Semester	
Subject	Units	Subject	Units
Biology 190 ¹	2	Art 190	2
Education 110	2	Education 111	2
Education 153	2	English 178	3
Industrial Education 15 or 51	3	Music 190	2
Physical Education 191	1	Physical Education 190	2
Elective or Minor	6	Elective or Minor	5
Total	16	Total	16

SENIOR YEAR

Education 133A-133B	8	Education 320A-320B	10
Elective or Minor	6	Education 124	2
Total	14	Education 137	2
		Total	14

¹ Majors and Minors in Biological Sciences are not exempt from this required course.

KINDERGARTEN-PRIMARY CREDENTIAL

JUNIOR YEAR

First Semester		Second Semester	
Subject	Units	Subject	Units
Biology 190 ¹	2	Art 190	2
Education 110	2	Education 111	2
Education 153	2	Education 133A	4
Industrial Education 15 or 51	3	English 178	3
Physical Education 191	1	Music 190	2
Elective or Minor	6	Physical Education 190	2
Total	16	Elective or Minor	1
		Total	16

¹ Majors and minors in Biological Sciences are not exempt from this required course.

SENIOR YEAR

<i>Subject</i>	<i>Units</i>	<i>Subject</i>	<i>Units</i>
Education 191-----	2	Education 124-----	2
Education 194-----	2	Education 193-----	2
Education 321-----	5	Education 320A-----	5
Elective or Minor-----	7	Elective or Minor-----	3
Total-----	16	Total-----	12

For the combined General Elementary-Kindergarten-Primary course, the student must complete a total of 132 units, including the following courses in addition to those outlined above:

Education 133B-----	4 units
Education 320B-----	5 units
Education 137-----	2 units
Elective-----	1 unit

GENERAL JUNIOR HIGH SCHOOL CREDENTIAL

JUNIOR YEAR

First Semester

<i>Subject</i>	<i>Units</i>
Education 110-----	2
Education 170-----	2
Education 153-----	2
Elective or Major or Minor-----	10
Total-----	16

Second Semester

<i>Subject</i>	<i>Units</i>
Education 133B-----	4
Education 111-----	2
Elective or Major or Minor-----	10
Total-----	16

SENIOR YEAR

<i>Subject</i>	<i>Units</i>	<i>Subject</i>	<i>Units</i>
Education 124-----	2	Education 330-----	3
Education 137-----	2	----- 190 *-----	2
Education 195 (Major field)-----	2	Elective, Major or Minor-----	10
Education 320B-----	5	Total-----	15
----- 190 *-----	2		
Total-----	13		

* To be chosen from Art 190, Biology 190, PE 190, Music 190, Home Economics 190. Additional credit in Education 195 may be substituted.

For the combined General Elementary-Junior High School course, the student must complete a total of 132 units, including the following courses in addition to those outlined above:

Industrial Education 15 or 51-----	3 units
Physical Education 191-----	1 unit
English 178-----	3 units
Education 133A-----	4 units
Education 320A-----	5 units

Art 190	} at least-----	4 units
Biology 190		
Music 190		
Physical Education 190		

Total-----20 units

Students who are interested in securing one or more of these credentials in combination with one of the Special Secondary credentials should consult the respective divisions concerning the requirements for such a program.

Students who plan to seek a combination of two or more credentials should arrange to attend one or more summer sessions in order to complete the program within the four-year period.

THE GENERAL SECONDARY CREDENTIAL

SUMMARY OF GENERAL REQUIREMENTS

1. Possession of an approved bachelor's degree from a recognized college or university.
2. Proper certification as to health of the applicant.
3. A scholarship average of 1.50 for all work taken in the upper division and in the major field.
4. Approval of application for admission to candidacy and to the graduate division.
5. Fulfillment of the requirement in United States Constitution.
6. At least 24 units of graduate work, with a grade point average of 1.75 or better, including at least 8 units in courses of strictly graduate character.
7. Completion of a teaching major with at least 24 units of upper division work.
8. Completion of a teaching minor with at least 6 units of upper division work and a total of 15 units or more.
9. Completion of 26 units in courses in professional education with a grade of "C" or better, at least 6 of which must be of strictly graduate character, and including at least 6 units of directed teaching in the major or minor field.
10. Completion of at least 24 units of work in residence at Humboldt State College, including at least 12 units of the 24 required in the fifth year.

LOWER DIVISION

The general education and lower division requirements are listed for each respective major offered in connection with the General Secondary Credential under the appropriate divisions. The student should plan his work during the first two years with the assistance of his adviser in such a manner that he may meet the general education requirements and take the necessary lower division prerequisites for the completion of his chosen major and minor fields.

While Psychology 1, General Psychology, is a required course, each student is advised to take, in addition, Psychology 2, Applied Psychology.

UPPER DIVISION AND GRADUATE WORK

Upper division professional preparation for the General Secondary Credential consists in the completion of the following courses or their equivalent:

Education 110	2 units
Education 111	2 units
Education 115	2 units
Education 124	2 units
Education 153	2 units
Education 170	2 units
Education 195	(at least one field) 2 units
Total	14 units

The graduate requirements are six units of graduate courses, including Education 270, and at least four units in addition, chosen from Education 265, 299, and Psychology 212.

Each candidate for the General Secondary Credential must complete a minimum of six units of Education 340, Directed Teaching in the High School, with an assignment in his major field. Students are strongly urged to do directed teaching in both the major and the minor fields.

For requirements other than Education, see the respective divisions.

The following is a recommended sequence of professional courses:

First Semester		JUNIOR YEAR		Second Semester	
Subject	Units	Subject	Units	Subject	Units
Education 110	2	Education 111	2		
Other requirements or electives	14	Education 170	2		
		Other requirements or electives	12		
Total	16	Total	16		

SENIOR YEAR			
Education 115	2	Education 124	2
Education 153	2	Education 195	2
Other requirements or electives	10	Other requirements or electives	10
Total	14	Total	14

GRADUATE YEAR

(Program to be arranged jointly by the student's major adviser and the Director of Secondary Teacher Education)

Education 270	2 units
* Education 340	6 units
Electives chosen from:	
Education 212	} 4 units
Education 265	
Education 299	
Graduate course in major field	3-6 units
Major, minor, or electives	9-6 units
Total	24 units

* Credit in Education 342, 343, 344 or 345 may be substituted for a part of this requirement.

DESCRIPTION OF COURSES**UPPER DIVISION****110. Educational Psychology (fall, spring) 2 units**

Application of the principles of psychology to education. Special attention to the results of scientific research and experimentation in the psychology of learning, personality development, and adjustment.

Prerequisite: Psychology 1.

Two one-hour periods per week.

111. Child Growth and Development (fall, spring) 2 units

A study of the eugenics and principles governing the mental and physical development of the normal child from birth to maturity. Educational methods and practices in the promotion of the physical and mental health of the child.

Prerequisite: Psychology 1.

Two one-hour periods per week.

115. Measurement in Education (fall) 2 units

A course dealing with the selection, use, and interpretation of tests in pupil diagnosis and appraisal; construction and validation of informal objective tests; use of simple statistical procedures in interpretation of scores; practice in administering and scoring tests.

124. Philosophy of Education 2 units

A study of the major theories of education, their development, and present interpretations in the light of democratic ideals. The student will be given an opportunity to do critical thinking of a type that will strengthen the foundations of his own educational philosophy and his understanding of the educational procedures that are currently practiced.

Two one-hour periods per week.

125. The Public School System (summer) 3 units**133A-133B. Elementary School Curriculum¹ 8 units**

This course gives prospective teachers a comprehensive overview of teaching in the elementary school. It covers such topics as courses of study; units of work; methods; materials; discipline, etc.

133A—Lower grades.

133B—Upper grades.

The time spent will be approximately equivalent to six hours a week of class work with four hours of observation and participation in classroom procedure.

137. Rural Education 2 units

A course designed to develop an understanding of the place of the school in the life of rural communities, ranging from the open country to small cities at the heart of rural areas. Special emphasis on school organization, records, and legal and professional relationships affecting the rural teacher.

Two one-hour periods per week.

139. Advanced Elementary School Curriculum (summer) 3 units**140A. Administration of Elementary Schools (summer) 2 units****140B. Field Problems in Administration (summer) 2 units****141A. Supervision in Elementary Schools (summer) 2 units****141B. Field Problems in Supervision (summer) 2 units****145. School Finance (summer) 2 units****148. Legal and Professional Aspects of Education (summer) 2 units**

¹ See scholarship standards, page 54.

153. Audio-Visual Education (fall) 2 units

A study of the vast array of educational resource materials available to teachers. Techniques of preparation, selection, use, and evaluation of materials. Opportunities provided for developing skill in care and operation of standard equipment.

165. Pupil Personnel and Guidance (summer) 2 units**170. Secondary Education (spring) 2 units**

The philosophy, objectives, principles, organization, administration and functioning of public schools for grades seven through fourteen. Special attention to adolescent psychology and the problems of teaching pupils in the adolescent period.

Two one-hour periods per week.

190. The Teaching of Elementary School Subjects 2 units

A series of courses dealing with the teaching of special subjects taught in the elementary school. Each course will carry two units of credit and will emphasize sources and utilization of materials at various grade levels. Observation and experience in preparing teaching materials will be included.

These courses should be taken prior to Directed Teaching, and include the following:

- Educ. 190A. Art Education (see also Art 190)
- Educ. 190M. Elementary School Music (see also Music 190)
- Educ. 190PE. Elementary School Physical Education (see also P. E. 190)
- Educ. 190S. Elementary School Science (see also Biol. 190)

191. The Kindergarten 2 units

A course designed to provide the basic methods and skills for organizing and conducting a kindergarten. Materials and activities will be studied in a practical situation. Should be taken concurrently with Education 321.

†193. Art in Kindergarten Primary 2 units

This course is designed to give understanding and experience in the theory and technique of teaching art in a modern kindergarten-primary program. Some students find it particularly helpful to carry this course concurrently with directed teaching.

Two one-hour periods per week.

†194. Music and Games in the Kindergarten-Primary 2 units

This course provides theory and experience in teaching music from a creative approach. The student becomes acquainted with extensive materials for singing, rhythms, games, and listening.

195. The Teaching of Secondary School Subjects 2 units

Professional courses in the teaching of the major and minor fields at the secondary level. Each course will carry two units credit and will deal with the objectives, materials, and special procedures involved in teaching that field. Observation and experience in preparing teaching materials will be included.

These courses will be taken prior to or concurrently with Directed Teaching.

The numbers and titles of these courses, to be offered as needed, are:

- Educ. 195A. The Teaching of Art
- Educ. 195B. The Teaching of Business Education
- Educ. 195E. The Teaching of English
- Educ. 195HE. The Teaching of Home Economics
- Educ. 195HH. The Teaching of Health and Hygiene
- Educ. 195M. The Teaching of Music
- Educ. 195Ma. The Teaching of Mathematics
- Educ. 195S. The Teaching of Science
- Educ. 195SS. The Teaching of Social Studies
- Educ. 195Sp. The Teaching of Speech
- Educ. 195PE. The Teaching of Physical Education

199. Special Problems in Education

Research in Education to be carried on under the direction of the College. Credit to be arranged.

† Given if sufficient demand.

GRADUATE DIVISION

- 212. Psychology of Adolescence** (fall) **3 units**
See Psychology 212, page 144.

- 265. Pupil Personnel and Guidance** (spring) **2 units**

A study of the scientific principles involved in assisting the student in the formulation and acceptance of adequate and appropriate personal, educational, and vocational objectives; a critical study of the bases of individual differences and of appropriate educational adjustments; organization and use of cumulative personnel data in guidance procedures.

- 270. Secondary School Curriculum** **2 units**

A thorough study of the development of the curriculum of modern secondary education, with emphasis on the interrelation of the various subject fields and their contributions to the aims of education. The selection, organization, and evaluation of textbooks, references, and other materials of instruction will be treated together with the planning of appropriate learning experiences. Independent research and study will be encouraged in areas of the student's particular interests. Required of all candidates for the General Secondary Credential.

- 299. Special Problems in Education** **2-4 units**

Independent graduate level research on special problems. Particularly adapted to experienced teachers.

DIRECTED TEACHING

One of the most important stages in the education of a teacher is the pre-service experience in organizing and managing classroom situations that is obtained through the work in directed teaching. This work is generally scheduled near the close of the college course, and constitutes, in a real sense, the laboratory phase of professional preparation. Each student will register for the appropriate section of directed teaching as required by the professional sequence for the credential that he is seeking. The student is then given a room, grade, or subject assignment by the Director of either Elementary or Secondary Teacher Education with the assistance of the college supervisors in the respective fields. The work of the student teacher is carried on through the stages of observation, participation, and responsible teaching, under the guidance of carefully selected supervising teachers and supervisors from the School of Education and the various subject matter departments of the College. Since this work involves professional responsibilities that must be met promptly and regularly, students are not expected to participate in extra-curricular activities or register for course work that will in any way interfere with their work in directed teaching.

Most of the directed teaching at the elementary levels is done in the excellently equipped College Elementary School, while cooperative arrangements with secondary schools in the college neighborhood make possible a wide variety of outstanding teaching situations at these levels.

- 320A-B. Directed Teaching—General Elementary**¹ **10 units**

Students teach under supervision in the College Elementary School for one semester for the Elementary Credential. Taken during the same semester, each half requiring 9 weeks and carrying 5 units of credit.

320A—Lower Grades (Prerequisite: 133A)

320B—Upper Grades (Prerequisite: 133B)

¹ See scholarship requirements, page 54.

321. Directed Teaching—Kindergarten¹**5 units**

Students teach in the Kindergarten in the College Elementary School for 12 hours per week for one semester for the special Kindergarten-Primary Credential. Kindergarten theory and techniques are covered through conferences and assigned readings in connection with their teaching.

Prerequisite: Education 133A.

322. Directed Teaching in Elementary Physical Education**323. Directed Teaching in Elementary Art****324. Directed Teaching in Elementary Home Economics****325. Directed Teaching in Elementary Music**

Courses 322-325, inclusive, are offered to meet the needs for directed teaching at the elementary level of candidates for the special secondary credentials in these four fields. They are under the supervision of the Director of Elementary Teacher Education and the supervisors from the respective departments and carry 2 units of credit each.

330. Directed Teaching in the Junior High School¹**3 units**

Students seeking the Junior High School Credential will register for this section and will be given an appropriate assignment in a junior high school in the neighborhood. These students will work under the supervision of the Director of Secondary Teacher Education.

Prerequisite: Education 133B, 170.

340. Directed Teaching in the High School¹**6 units**

Required of candidates for the General Secondary Credential. Each student will be assigned to a selected supervising teacher in a cooperating high school, where he will gradually assume responsibility for certain teaching assignments in his major or minor fields, together with other school activities. Supervision of the student's work is shared by the supervising teacher and his college supervisors.

Prerequisite: Education 170.

342. Directed Teaching in Secondary Physical Education**343. Directed Teaching in Secondary Art****344. Directed Teaching in Secondary Home Economics****345. Directed Teaching in Secondary Music**

Courses 342-345, inclusive, are offered to meet the needs of candidates for special secondary credentials in these four fields. They are under the supervision of the Director of Secondary Teacher Education and the respective departmental supervisors. They carry 2 to 4 units credit.

350. College Teaching in Physical Education**1-2 units**

Students assist in college physical education classes under the supervision of the regular instructors in these courses.

Prerequisites: Education 322 or 342 and recommendation of the Chairman of the Division of Health and Physical Education.

Two to four one-hour periods per week.

360. Advanced Teaching**2-3 units**

This course provides an opportunity for students to do advanced teaching which may include work with special subjects, or experimentation with methods of teaching.

ADMINISTRATIVE CREDENTIAL CURRICULA

An Elementary School Administration Credential is required for the position of principal of a school of more than five teachers. A supervisor devoting more than half-time to supervision of instruction is required to have an Elementary School Supervision Credential.

¹ See scholarship requirements, page 54.

General requirements for these two credentials are the possession of a valid General Elementary Credential, and two years of successful teaching experience in the elementary school.

For the Elementary School Administration Credential, it is necessary to complete 30 semester units of upper division or graduate work in addition to the holding of the General Elementary Credential, or training which an institution approved or accredited to recommend for the Elementary School Administration Credential certifies as fulfilling institutional requirements for a full year of work in addition to the holding of the General Elementary Credential.

For the Elementary School Supervision Credential, the requirement is 24 semester units of upper division or graduate work in addition to the holding of the General Elementary Credential.

Course requirements for these credentials are as follows:

	<i>Administration Supervision</i>	
Education 140A. Administration of Elementary Schools-----	2	2
Education 140B. Field Problems in Administration-----	2	-
Education 141A. Supervision in Elementary Education-----	2	2
Education 141B. Field Problems in Supervision-----	-	2
Education 139. Advanced Elementary School Curriculum---	3	3
Education 115. Measurement in Education -----	2	2
Education 125. The Public School System -----	3	-
Education 148. Legal Aspects of Education-----	2	-
Education 145. School Finance -----	2	-
Education 165. Pupil Personnel and Guidance-----	2	2
Electives chosen to round out the student's professional and general education, minimum of-----	10	11
Minimum total -----	30	24

RESIDENCE REQUIREMENT. One-half of the work for these credentials must have been taken at Humboldt State College, and at least 12 units in residence (not extension) here.

The Special Supervision Credential may only be granted to holders of Special Secondary Credentials in a given field. See the Registrar for requirements.

ORIENTATION

2. Orientation II (fall, spring)

1 unit

The purpose of this course is to help the student determine early in his college career whether or not he should pursue the teacher education curriculum. An attempt is made to point out the trends in secondary and elementary education, and considerable time is devoted to discussing education as a profession.

Two one-hour class periods per week plus special assignments.

3. Orientation III (fall, spring)

1 or 2 units

This course is planned to enable the prospective teacher to keep in touch with professional education during his pre-professional years. The student will be assigned to a teacher at a grade level of his choice in a school in the vicinity. He will serve as assistant to the teacher, participating in the activities of the room and rendering whatever assistance is needed. From three to five hours per week will be required, depending on the credit desired. Applicable as elective credit.

Prerequisite: Orientation II or consent of instructor.

SCHOOL OF ARTS AND SCIENCES

DIVISION OF FINE AND APPLIED ARTS

Art
Home Economics
Industrial Education

Music
Speech and
Dramatics

OBJECTIVES

The objectives of the Division of Fine and Applied Arts are to provide:

1. The opportunity for each student to attain an understanding and appreciation of the vital practical and aesthetic art opportunities and issues of the day through study and participation in the activities within the realm of fine and applied arts, encouraging each one to do the work best suited to develop his powers and to satisfy his interests.
2. A "general education" background in this field for those training to become teachers in the schools of the State.
3. Curricula leading to:
 - a. General Secondary Credential with major in Speech-English, enabling the student to teach in the secondary schools of the State. This program involves a year of graduate study.
 - b. The A.B. Degree with Special Secondary Credentials in
 - (1) Art
 - (2) Home Economics
 - (3) Music} authorizing the holder to teach these special subjects in the elementary and secondary schools of California
 - c. The A.B. Degree with liberal arts majors in
 - (1) Art, for the student interested in further specialized work in art, for personal or vocational objectives.
 - (2) Home Economics, for those students desirous of developing proficiency in homemaking, of employment in nonteaching homemaking fields, or of carrying on advanced study in home economics.
 - (3) Music, for the student interested in a nonteaching career in music or in advanced specialization in this field.
 - (4) Speech, with differentiated majors in Speech-English, Radio-Speech, or Speech and Dramatics, for students interested in careers in radio or the theater.
 - (5) Allied Arts, for students interested in acquiring a well-ordered knowledge of our cultural development for the intelligent enrichment of everyday living.
 - d. The A.B. Degree with Junior High School majors in Art, Home Economics, Industrial Education, Music, Speech and Dramatics, to qualify the student to teach in the junior high schools of the State.
4. Minors in Art, Home Economics, Industrial Education, Music (instrumental and vocal), Speech and Dramatics, and Radio.
5. Courses which partially fulfill the requirements for the Special Secondary Speech Correction Credential and the Special Secondary Credential in Industrial Education.
6. Terminal courses in drafting and photography for students interested in two-year programs which are vocational in character.
7. A variety of courses in the Fine and Applied Arts for students who wish to take their lower division work at Humboldt State College in preparation for a professional curriculum to be completed at another institution.

REQUIREMENTS FOR THE A.B. DEGREE IN ALLIED ARTS

This curriculum is a group major, developed through the cooperation of the entire Division of Fine and Applied Arts to provide a flexible pattern for a broadly cultural program that will contribute toward the intelligent enrichment of everyday life.

LOWER DIVISION

Elementary Algebra and Plane Geometry (if not taken in high school)	
Social Sciences (see page 127)	12 units
Natural Sciences (see page 112)	12 units
English 1A-1B	6 units
Psychology 1	3 units
Physical Education	2 units

Lower division prerequisites in the three fields of the student's choice for major emphasis.

UPPER DIVISION

Thirty-six units in three fields with not less than six nor more than 18 in any one field. Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page 40), and in one additional field to meet the minimum requirements of the State for a minor (see page 41).

Minimum lower division required	60 units
Minimum upper division required	40 units
Total units required	120 units

Scholarship Requirement: "C" average in the major in addition to the requirement of a "C" average in all work undertaken.

ART**REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN ART****LOWER DIVISION**

Art	21 units
(Art 2, 10, 20A or 21A, 25, 27 or 28, 40 and 45)	
English 1A-1B	6 units
Mathematics (Elementary Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences (including Physics 15)	12 units
Physical Education	2 units
(Physical Education 5 or 15 and 1½ units in Physical Activities)	
Psychology 1	3 units
Social Sciences	12 units
(Including one year-course and fulfillment of requirement in U. S. History and Constitution. See page 39)	
Electives	6 units
(Chosen from Foreign Language, Music, Philosophy, Speech Arts, or English 46A-46B or 74A-74B)	

UPPER DIVISION

Art	24 units
(Including Art 103, 120A or 121A, 127A, 140, 145, and 148)	

Other Requirements

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor chosen from the list of minors on page 41 and must maintain the following scholarship standards:

Index on all work taken toward the degree	1.00
Index on all work taken in major and minor	1.00

The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

REQUIREMENTS FOR THE A.B. DEGREE WITH A SPECIAL SECONDARY CREDENTIAL IN ART

LOWER DIVISION

Art ----- 21 units
(Art 2, 10, 20A or 21A, 25, 27A or 28A, 40, 45)

Orientation II ----- 1 unit

Other lower division requirements are the same as given on page 66 for the A.B. Degree with a major in Art.

UPPER DIVISION

Art ----- 19 units
(Including Art 103, 148, and 6 units from 120A-B, 121A-B, or 127A-B)

Education ----- 18 units
(Education 110, 111, 115, 124, 153, 170, 190A, 195A, 323 and 343)

OTHER REQUIREMENTS

Electives to bring total of units up to 120, 80 units of which must be completed outside the field of art.

A minimum of 40 upper division units is required.

The candidate must complete a minor, chosen from the list of minors on page 41 and must maintain a "C" average in all work taken toward the degree in the major and the minor fields, and in all Education courses taken.

TWO-YEAR TERMINAL CURRICULUM IN PHOTOGRAPHY

RECOMMENDED SEQUENCE

Freshman Year

	<i>Sem. 1</i>	<i>Sem. 2</i>
Art 1 (Art Structure) -----	2	—
Art 10 (Design) -----	—	3
Art 45 (Lettering) -----	3	—
Art 50 (Elementary Photography) -----	—	2
Chemistry 1A (Inorganic) -----	5	—
English 1A-1B (Reading & Composition) -----	3	3
Health & Hygiene 1 (Hygiene) -----	—	2
Social Science -----	3	3
Phys. Educ. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
Elective -----	—	2
	16 $\frac{1}{2}$	15 $\frac{1}{2}$

Sophomore Year

Art 2 (Art History) -----	3	—
Art 51 (Advanced Photography) -----	2 or 3	—
B.A. 2A (Typewriting) -----	—	2
B.A. 14A (Accounting) -----	3	—
Jr. 29 (Press Photography) -----	1	—
Phys. Educ. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 2A-2B (General Physics Lectures) -----	3	3
History 70 (U. S. History) -----	2	—
Pol. Sci. 51 (American Const. Gov't.) -----	—	2
Psychology 1 (General Psychology) -----	—	3
Speech 1 (Fundamentals of Speech) -----	—	3
Speech 25A (Dramatic Workshop—Lighting) -----	—	2
	13 $\frac{1}{2}$	15 $\frac{1}{2}$

REQUIREMENTS FOR

<i>Junior High School Major</i>		<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower division	12 units of lower division Art	6 units of lower division Art	10 units of lower divi- sion Art, including Art 1, 2, 10, and 25
Upper division	12 units of upper division Art (To be selected in consultation with the instructor)	6 units of upper division Art	8 units of upper divi- sion Art, including Art 103, and 5 units in specialized art subject courses
Total units required	24 units	12 units	18 units

Additional requirements for the Junior High School Credential are given in detail on pages 55-57.

A liberal arts group major which includes Art may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

DESCRIPTION OF COURSES

LOWER DIVISION

1. Art Structure 2 units

Introduction to art through a series of assigned experiments embracing the major divisions of the space art fields. This course is designed to give the student a broad general view of the fields of artistic expression. Art majors not eligible.

Two one-hour periods per week.

2. Art History and Appreciation 3 units

A historical study of the development of art from pre-historical times to the Renaissance.

Three one-hour periods per week.

3. Art Appreciation 3 units

See Art 103.

10. Design 3 units

A study of the elements of design and their applications to the commercial and fine art fields.

Three one-hour periods per week.

20A-20B. Fundamentals of Drawing 3-3 units

Training in the fundamentals of drawing, perspective, form, space organization and composition, using various materials and techniques.

Three two-hour periods per week.

21A-21B. Drawing and Composition 3-3 units

The study of form and composition from the human figure and landscape.

Three two-hour periods per week.

22. Nature Drawing 1 unit

Precision drawing in varied media from objects in nature. Adapted to the needs of botany, pre-medical and other science students.

One two-hour period per week.

25. Color 3 units

An analysis and use of the phenomena of pigmentary colors. This course is designed to prepare the student for further work in painting, design, interior decoration, and dress design.

Three two-hour periods per week.

27A-27B. Water Color Painting

3-3 units

The study of water color painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.

Three two-hour periods per week.

28A-28B. Oil Painting

3-3 units

The study of oil painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.

Three two-hour periods per week.

30. Art Anatomy

3 units

Analysis of the skeletal and muscular structure of the human figure in terms of action, form, and methods of representation with a view to preparing the student for advanced drawing, painting, and sculpture.

Three one-hour periods per week.

40. Crafts

3 units

Introduction to various craft media and methods. Content of the course is varied to meet the craft interests and requirements of each class.

Three one-hour periods per week.

45. Lettering

3 units

Practice in the use of lettering tools, the study of basic alphabets, and an introduction to the principles of advertising layout.

Three one-hour periods per week.

50. Elementary Photography (spring)

2 units

Lectures on the optical principles, the chemistry of printing and developing, the technique of exposure. Laboratory work includes practice in dark-room techniques. Limited to 15 students.

One one-hour lecture and one three-hour laboratory period per week.

51. Advanced Photography (fall, spring)

2 or 3 units

Qualified students undertake work along various specialized lines.

Prerequisite: Art 50 and consent of the instructor.

Hours to be arranged.

80. Art Workshop

1-3 units

A course in which students may work in areas of their own choosing under the supervision of the art faculty. Open to all students.

UPPER DIVISION

103. Advanced Appreciation

3 units

A course in art appreciation beginning in the 18th Century and extending into contemporary times. The space arts are correlated with the other arts by means of listening periods (recordings), slide lectures, and related reading. Students who are not majoring in art may take the course without its prerequisites. They may take it either as a lower division class by registering for Art 3 or as an upper division class by registering for Art 103.

Three one-hour periods per week.

120A-120B. Advanced Drawing

3-3 units

Continuation of the study of form and composition in still life, figure, and landscape.

Prerequisite: Consent of instructor.

Two two-hour periods per week.

121A-121B. Advanced Drawing and Composition

3-3 units

Continuation of the study of figure and landscape.

Three two-hour periods per week.

127A-127B. Advanced Painting**1, 2, or 3 units**

The student will work in a medium of his own choosing, under the supervision and criticism of the instructor. Problems will include still-life, landscape, and figure construction.

Prerequisite: Consent of the instructor.

Date, time and place to be arranged with the instructor.

140. Advanced Crafts**3 units**

Prerequisites: Art 10, and 40.

145. Advanced Lettering**3 units**

A study of techniques and methods used in showcard writing and fine lettering for reproduction. Course problems include layouts in color with illustrations.

Prerequisites: Art 10, 20A or 21A, and 45.

148. Ceramics**2 units**

See I. E. 105.

180. Art Workshop**1-3 units**

Open to art majors and minors with upper division standing. Students may work in the areas of their own choosing under the supervision of the art faculty.

190. Art Education**2 units**

(See Education 190A).

For prospective teachers. Theory and practice in the use of art in the elementary schools. Covers the philosophy of art, and practical exercises in its uses from kindergarten through junior high school. (Not applicable toward a minor in art.)

Prerequisite: Art 1.

Two one-hour periods per week in addition to one activity period, and observation to be arranged.

HOME ECONOMICS

REQUIREMENTS FOR A.B. DEGREE WITH MAJOR IN HOME ECONOMICS

LOWER DIVISION

Home Economics -----	10 units
(H.E. 1A, 7, 10A, 20)	
Art 1, 2, and 25 -----	8 units
English 1A-1B -----	6 units
Health and Hygiene 1 -----	2 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Sciences -----	13 units
(Chemistry 1A, 8, Bacteriology 1)	
Physical Education -----	2 units
(Phys. Educ. 15 and 1½ units L.D. Activities)	
Psychology 1 -----	3 units
Social Sciences -----	12 units
(Economics 1A, Sociology 1A-1B, and fulfillment of requirements in U. S. History and Constitution. See page 39)	

UPPER DIVISION

Home Economics -----	24 units
(Chosen from: H.E. 101, 111, 120, 130, 140, 150, 160, 165, 199, Industrial Education 103)	
Education 111 -----	2 units
Natural Science (Physiology 101 strongly recommended) -----	(5 units)

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

The candidate must complete a minor, chosen from the list of minors on page 41, and must maintain a scholarship average of "C" in the major and the minor.

The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

REQUIREMENTS FOR THE A.B. DEGREE WITH THE SPECIAL SECONDARY CREDENTIAL IN HOMEMAKING

LOWER DIVISION

Home Economics -----	16 units
(H.E. 1A-1B, 10A-10B, 7, and 20)	
H. H. 50 -----	2 units
Orientation II -----	1 unit
Other lower division requirements are the same as given above for the A.B. Degree with a major in Home Economics.	

UPPER DIVISION

Home Economics -----	24 units
(H.E. 111 and courses chosen from H.E. 101, 120, 130, 140, 150, 160, 165, and 199)	
Education -----	18 units
(Education 110, 111, 115, 124, 153, 170, 195HE, 324, and 344.)	
Industrial Education 103 -----	3 units
(Physiology 101 strongly recommended) -----	(5 units)

OTHER REQUIREMENTS

Electives to bring total of units up to 120, 80 units of which must be completed outside the field of Home Economics.

The candidate must complete a minor, chosen from the list of minors on page 41, and must maintain a "C" average in all work taken in Education courses, and in the major and minor fields.

REQUIREMENTS FOR

<i>Junior High School Major in Home Economics</i>	<i>Minor in Home Economics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	Lower Division
H.E. 1A----- 3 units	H.E. 1A----- 3 units	H.E. 1A----- 3 units
H.E. 7----- 2 units	H.E. 7----- 2 units	H.E. 7----- 2 units
H.E. 10A-10B_ 6 units	H.E. 11----- 2 units	H.E. 11----- 2 units
H.E. 11----- 2 units	H.E. 20----- 2 units	H.E. 20----- 2 units
H.E. 20----- 2 units	Upper Division	Upper Division
Upper Division	9 units chosen from :	11 units chosen from :
12 units chosen from :	H.E. 101A__ 3 units	H.E. 101A__ 3 units
H.E. 101A__ 3 units	H.E. 130___ 3 units	H.E. 130___ 3 units
H.E. 130___ 3 units	H.E. 140___ 3 units	H.E. 140___ 3 units
H.E. 140___ 3 units	H.E. 150___ 2 units	H.E. 150___ 2 units
H.E. 150___ 2 units	H.E. 160___ 3 units	H.E. 160___ 3 units
H.E. 160___ 3 units	H.E. 165___ 3 units	H.E. 165___ 3 units
H.E. 165___ 3 units	—	Educ. 195HE_ 2 units
Total units	Total units	Total units
required -----27 units	required -----18 units	required -----20 units

Additional requirements for the Junior High School Credential are given in detail on pages 55-57.

A liberal arts group major which includes Home Economics may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

DESCRIPTION OF COURSES

LOWER DIVISION

A. Introduction to Home Economics

1 unit

This survey course is designed to acquaint the student with the entire overview of the Home Economics field, and the many ways in which it may serve any individual; information which may lead into vocational goals or develop an appreciation of a higher standard of living. (Open to both men and women and recommended for Freshmen.)

One one-hour period per week.

1A-1B. Clothing Construction (year)

3-3 units

First semester: Laboratory work directed towards the development of good technique in clothing construction processes; use of sewing machines and hand stitches; selection and alteration of commercial patterns; correct fitting methods; use of cotton, linen, and rayon fabrics in making garments.

Second semester: Continuation of the work of the first semester. Development of more difficult technique in construction, alteration, and designing of garments. Emphasis on use of woolen fabrics and on original design.

One one-hour lecture and two three-hour laboratory periods per week.

1A is not prerequisite to 1B.

5. Home Crafts

2 units

The use of leisure time in designing and creating beautiful objects for the home. Instruction in art needlework and flower arrangements. This is an elective course with no prerequisites.

Two one-hour periods per week.

7. Textiles Selection

2 units

Consumer problems in textile selection of clothing and household fabrics. Identification of the major and minor fibers; laboratory tests on fibers; scientific principles applied to the care and treatment of fabrics. Open to all.

Two one-hour periods per week.

10A-10B. Food Study (year)

3-3 units

First semester: A scientific study of the composition and preparation of foods; food experiments; analysis of recipes and cookery processes and their application to meal preparation.

Second semester: Continuation of the work of the first semester. Emphasis on the planning, marketing, preparing, and serving of meals.

Prerequisite: Chemistry 1A (consult with instructor).

One one-hour lecture and two two-hour laboratory periods per week.

11. Meal Planning and Serving

2 units

Meal planning, preparation and serving of all three daily meals. Special appointments for various occasions, including an appreciation for acceptable etiquette and table decorations. Emphasis on relative costs and nutritive values, and on time and energy conservation.

One one-hour lecture and one three-hour laboratory period per week.

20. General Nutrition

2 units

A study of nutrition with special emphasis on human requirements, best selection of foods for individuals and families, and economy meals. Practice in food preparation and menu planning. Designed to meet the requirements for Social Service, Wildlife Management, and other curricula.

Two one-hour periods per week.

UPPER DIVISION

101. Advanced Clothing and Design

3 units

Advanced garment construction to acquire skills and time-saving techniques. For majors and minors in Home Economics.

One one-hour lecture and two three-hour laboratory periods per week.

Prerequisite: H.E. 1A-1B.

111. Advanced Meal Planning and Serving

2 units

One one-hour lecture and one three-hour laboratory period per week.

Prerequisite: Upper Division standing and consent of instructor. Students who have had Home Economics 11 are not eligible to enroll in this course.

120. Dietetics

3 units

The fundamentals of human nutrition and the nutritive properties of foods with application to the feeding of individuals and special groups; dietaries on limited incomes. Introductory problems in diet therapy.

Prerequisite: H.E. 10A-10B and 20.

Two one-hour lectures and one three-hour laboratory period per week.

130. Home Management

3 units

The evaluation of time, energy, and money in performing routine tasks in the care of the family, meals, laundry, services, special cleaning, entertaining and working for satisfaction in attaining a relative set of values in homemaking.

Three one-hour period per week, supplemented by actual home living practices.

140. Home Furnishings

3 units

A study of the house, its furnishings, equipment, interior decoration and arrangement, to satisfy varied family needs and interests.

Prerequisite: Art 1 and 10; Industrial Education 103 strongly recommended.

Three one-hour periods per week.

150. Child Care and Training

2 units

Observation and participation in the care and training of the pre-school child. Emphasis upon the establishing of desirable physical, mental, social, and emotional behavior of children as individuals and in groups.

Prerequisite: Education 111 (May be taken concurrently.)

160. Family Relationships

3 units

See Sociology 160.

165. Family Economics**3 units**

Special problems in personal and family finances in theory and practice, involving the evaluation of home production and consumption of goods and services; expenditures for the essentials and luxuries of life as related to desired goals of health, ambition, and a satisfactory standard of happy home life.

Three one-hour periods per week.

Prerequisite: Economics 1A.

190. Homemaking Problems in the Elementary School**2 units**

This course is designed to acquaint the elementary teacher minoring in Home Economics with homemaking procedures that can be adapted for use in the upper grades or junior high school in correlation with a given unit of work. Not applicable toward a minor in Home Economics.

Two one-hour periods per week.

199. Special Problems in Home Economics Education**1-3 units**

A flexible arrangement designed to meet the individual needs and interests of the major of upper division standing. Each person desiring such a course must have approval of the Home Economics staff. The hours, form of procedure, and objectives of the course must meet the approval of the instructor concerned.

INDUSTRIAL EDUCATION

SUGGESTED PROGRAM FOR THE SPECIAL SECONDARY CREDENTIAL IN INDUSTRIAL EDUCATION

(Note: From two to three years' work for this credential may be taken in this College; the remainder of the program must be taken in an institution authorized to issue this credential.)

	<i>Units</i>
Art 1, 10, 45, 50-----	10
Education 110, 111, 115, 170-----	8
English 1A-1B-----	6
Engineering 22, 40-----	5
Health and Hygiene-----	2
Industrial Education 5, 6, 7A, 12, 50, 51, 101, 123-----	22
Natural Science-----	12
(Including Chemistry 1A)	
Physical Education-----	2
(P. E. 5 plus 1½ units Lower Division Physical Education)	
Psychology 1-----	3
Social Science-----	12
(Including History 70 and Political Science 51. See page 39)	
Speech 1-----	3

(The student should consult the specific requirements of the institution to which he expects to transfer. From one and one-half to two years would probably be required in the terminal institution to complete the requirements for the credential.)

SUGGESTED PROGRAM FOR TWO-YEAR TERMINAL COURSE IN DRAFTING

	<i>Units</i>
Industrial Education 7A, 13-----	5
Art 2, 10, 20A or 21A, 45-----	12
English 1A-1B or Speech 1, and 2 or 3-----	6
Engineering 1A-1B, 22, 23, 24-----	12
Mathematics C, D-----	6
Natural Science-----	8
(Physics 2A-2B, 3A-3B)	
Physical Education-----	2
Psychology 1-----	3
Social Science-----	4
(History 70 and Political Science 51. See page 39)	
Electives-----	2

If the student qualifies for upper division work, it would be desirable for him to include in his program Industrial Education 103, 123, and 130.

REQUIREMENTS FOR

Junior High School Major in Industrial Education

Lower Division	Ind. Educ. 7A_____	2 units
	Ind. Educ. 51 ¹ _____	3 units
	Additional Lower Division	
	Ind. Educ. _____	7 units
Upper Division	Ind. Educ. 101_____	3 units
	Ind. Educ. 130_____	2 units
	Additional Upper Division	
	Ind. Educ. _____	7 units
Total units required		24 units

Additional requirements for the Junior High School Credential are given in detail on pages 55-57.

A liberal arts group major which includes Industrial Education may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

*Minors in Industrial Education**General Elementary**Junior High School and Secondary*

Lower Division	Ind. Educ. 15 or 51 ¹ _____	3 units	Ind. Educ. 7A_____	2 units
	3 or more units chosen from—		Ind. Educ. 51 ¹ _____	3 units
	Ind. Educ. 5_____	2 or 3 units	4 or more units chosen from—	
	Ind. Educ. 6_____	2 units	Ind. Educ. 5_____	2 or 3 units
	Ind. Educ. 7A_____	2 units	Ind. Educ. 12_____	3 units
	Ind. Educ. 12_____	3 units	Ind. Educ. 13_____	2 or 3 units
	Ind. Educ. 51 ¹ _____	3 units	Ind. Educ. 15_____	3 units
Upper Division	Art 6_____	2 or 3 units	Art 6_____	2 or 3 units
	Ind. Educ. 191 (men only)_____	2 units	Ind. Educ. 130_____	2 units
	4 or more units chosen from—		Ind. Educ. 190_____	2 units
	Ind. Educ. 101_____	2 or 3 units	5 or more units chosen from—	
	Ind. Educ. 105_____	2 units	Ind. Educ. 101_____	2 or 3 units
	Ind. Educ. 112_____	2 or 3 units	Ind. Educ. 103_____	2 or 3 units
	Ind. Educ. 123_____	3 units	Ind. Educ. 105_____	2 units
	Ind. Educ. 124_____	2 or 3 units	Ind. Educ. 112_____	2 or 3 units
Total units required		12 units	18 units	

¹ Industrial Education 51 will be waived as a subject requirement for students who have had two years of high school manual training.

DESCRIPTION OF COURSES

LOWER DIVISION

5. Pottery (fall) 2 or 3 units

A course in an interesting and age-old industry. Designing, casting, throwing, modeling, glazing, and firing.

Two or three three-hour periods per week.

†6. Cement and Concrete Work (spring) 2 units

Theory and practical application of concrete work, including ornamental cement.

Two three-hour periods per week.

7A. Mechanical Drawing (fall, spring) 2 units

A fundamental course in mechanical drawing which covers orthographic, isometric, and cabinet projections, intersection of solids, sections, screws and threads, cams, blue prints, etc.

Three two-hour periods per week.

† Given if sufficient demand.

9. Stone Polishing and Plastics (spring)

2 or 3 units

In this course an age old art is united with a very modern one. Stone cutting has been practiced for many years; plastic is very modern, but has many possibilities. The combination of the two subjects makes an interesting study.

Two or three three-hour periods per week.

†12. Metal Arts (spring)

3 units

The application and use of various metals. Hammering of copper, grinding of stones, casting, silver plating, soldering, enameling.

Three three-hour periods per week.

13. Architectural Drafting (spring)

2 or 3 units

A beginning course in the fundamentals of house design. Floor plans, elevations, perspective drafting, and architectural detail. A course in mechanical drawing either in high school or college is advisable as background.

Two or three three-hour periods per week.

15. Crafts in the Elementary Schools (fall, spring)

3 units

A course in the use of native materials and waste products applicable to the elementary grades. Magazine binding, waste-basket making, weaving, toy making, and pottery are some of the kinds of work done. Required of all women candidates for a credential.

Three one-hour class periods and six hours of outside work per week.

16. Toycraft

2 or 3 units

This course is planned for those students who are interested in child life and the many ingenious toys that it is possible to make for children.

Two or three-hour periods per week.

50-150. Introduction to Radio (fall)

3 units

Sound and radio waves. Theory and operation of oscillators, amplifiers, rectifiers, frequency meters, vacuum tubes, cathode ray oscilloscopes, and continuous wave radiation equipment. Laboratory work in circuit design, testing, and operation.

One lecture and two three-hour laboratory periods per week.

51. Fundamentals of Industrial Education (fall, spring)

3 units

The fundamentals of industrial education in terms of teaching industrial arts in the elementary grades. Covers methods, courses of study, construction of objects of the elementary grades level, and care and use of equipment. Required of all men candidates for an Elementary or Junior High School Credential.

Three three-hour periods per week.

UPPER DIVISION

101. Advanced Woodworking (spring)

2 or 3 units

Building of boats, airplane gliders, and large pieces of similar nature.

Prerequisite: Industrial Education 51 or its equivalent.

Two or three three-hour periods per week.

103. The Art of House Design (fall)

2 or 3 units

A thorough-going study of home planning and building in which an entire house is planned in structure and furnishings.

Prerequisite: Industrial Education 13.

Two or three three-hour periods per week.

105. Advanced Pottery (fall)

2 units

Study of the problems involved in pottery making, from the standpoint of both teaching and business. Designing, decorating, throwing, packing, firing of the kiln are a few of the subjects studied.

Prerequisite: Industrial Education 5.

Two three-hour periods per week.

† Given if sufficient demand.

- †112. **Advanced Metal Arts** (spring) 2 or 3 units
An advanced study of the work offered in Industrial Education 12. Practice in the use of pewter, aluminum, silver, bronze, and other metals.
Prerequisite: Industrial Education 12.
Two or three three-hour periods per week.
- †113. **Machine Shop** 3-3 units
See Engineering 40-41.
- †123. **Pattern-Making and the Theory of Foundry Practice** (fall) 3 units
A study in the basic principles of foundry practice and pattern-making. The construction of simple patterns, and casting in softer metals.
Prerequisite: Industrial Education 51 or its equivalent.
Three three-hour periods per week.
- †124. **Advanced Cabinet and Other Wood Construction** (fall) 2 or 3 units
Advanced course in woodwork designed for students interested in teaching or in problems of advanced construction.
Prerequisite: Industrial Education 101.
Two or three three-hour periods per week.
- †125. **Carpentry** (spring) 3 units
A study of house construction in which houses in miniature are built to illustrate construction problems. Recommended as a suitable course to follow Industrial Education 103.
Prerequisite: Industrial Education 51 or its equivalent.
Three three-hour periods per week.
- †130. **Industrial Arts Design** (spring) 2 units
Theory and practice in the designing of objects in the industrial arts and their decoration.
Prerequisite: Industrial Education 7A.
Two one-hour lecture and two two-hour laboratory periods per week.
- †190. **Management of School Shops** (spring) 2 units
A course in the objectives, methods, and content of shop programs for the grade schools. Intended for students majoring in Industrial Education.
Prerequisite: Industrial Education 51 and upper division status.
Two one-hour periods per week.

† Given if sufficient demand.

MUSIC

REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN MUSIC

LOWER DIVISION

Music -----	18 units
(Music 11A-11B, 20A-20B, 21A-21B, and 2 units of Applied Music.)	
English 1A-1B -----	6 units
Mathematics (Elementary Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences -----	12 units
(Including Physics 15)	
Physical Education -----	2 units
(Phys. Educ. 5 or 15 plus 1½ units L.D. Phys. Educ.)	
Psychology 1 -----	3 units
Social Sciences -----	12 units
(Including one year-course and fulfillment of requirement in U. S. History and Constitution. See page 39)	
Electives -----	6 units
(Chosen from Foreign Language, Philosophy, Speech, Art or English 46A-46B, or 74A-74B.)	

UPPER DIVISION

Music -----	24 units
(Music 101-102, 123, 124, 4 units of Applied Music, plus 10 units in music electives.)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor, chosen from the list of minors on page 41, and must maintain a "C" average in the major and the minor, as well as in all work taken toward the degree.

The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

REQUIREMENTS FOR THE A.B. DEGREE WITH A SPECIAL

SECONDARY CREDENTIAL IN MUSIC

LOWER DIVISION

Music -----	24 units
(Music 20A-20B, 21A-21B, 11A-11B, 11C, 4 units of Applied Music, and 2 units in Music Activities.)	
Note: Music majors usually enter college with some basic knowledge of orchestral instruments. On the basis of an examination, these students will be excused from Music 71, 72, and 73. Students who have not had training in these fields or who fail to make a satisfactory score on the qualifying examination will be required to enroll in these courses which must be taken in addition to the 120 semester units required for the A.B. Degree.	
Orientation II -----	1 unit
Other lower division requirements are the same as given above for the major in music.	

UPPER DIVISION

Music -----	22 units
(Music 101-102, 123, 124, 131, 141, 146, 4 units of Applied Music, and 2 units in Music Activities)	
Education -----	20 units
(Education 110, 111, 115, 124, 153, 170, 190, 195M, 325, and 345)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120, 80 units of which must be completed outside the field of music.

The candidate must complete a minor, chosen from the list of minors on page 41, and must maintain a "C" average in all work taken, in all Education courses, and in the major and minor fields.

In addition to these requirements, the State Department of Education has prescribed the following standards of performance which must be met by candidates for the Special Secondary Credential in Music:

- I. PIANO: Ability to play a Bach two-part invention, an artistic accompaniment, and four-part hymns at sight.
- II. VOICE: Ability to sing at least one song representative of each of the following periods of vocal literature:

Classical period
Romantic period
Modern period

Ability to sing at sight any part of a four-part hymn.

- III. CONDUCTING: Ability to train changed and unchanged voices; to conduct an open four-part score; to tune, adjust, and demonstrate the fingering of any instrument of the orchestra; to play the major scale of the instrument one octave on at least one representative instrument of each section of the orchestra; and to conduct from an orchestral score.

REQUIREMENTS FOR

Junior High School Major

Lower Division -----	Music 11A-11B -----	4 units
	Music 20A-20B -----	6 units
	Music 21A-21B -----	6 units
	†Music 71, 72, or 73 (two courses) -----	4 units
	Music Activities and Class Lessons -----	3 units
Upper Division -----	Music 101-102 -----	6 units
	Music 141 -----	2 units
	Music 146 -----	2 units
	Music 190 -----	2 units
	Music Activities and Class Lessons -----	4 units
Total units required -----		39 units

A liberal arts group major which includes Music may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

Additional requirements for the Junior High School Credential are given in detail on pages 55-57.

	<i>Instrumental Minor</i>		<i>Vocal Minor</i>	
	Piano Test		Piano Test	
Lower Division -----	Music 10 -----	3 units	Music 10 -----	3 units
	Music 11A-11B --	4 units	Music 11A-11B --	4 units
	Music 50 or 51----	1 unit	Music 60 or 65----	2 units
	†Music 71, 72, or 73 (two courses) 4 units		Music 76 -----	2 units
Upper Division -----	Music 101 or 102--	3 units	Music 101 or 102--	3 units
	Music 131 -----	1 unit	Music 146 -----	2 units
	Music 141 -----	2 units	Music 160 or 165--	2 units
	Music 150 or 151--	1 unit		
				17 units
Total units required-----		19 units		

† To be taken in the two orchestral sections in which student has not had training.

DESCRIPTION OF COURSES

LOWER DIVISION

3-4. Music Literature (year) 3-3 units

A course in music history and appreciation designed for students who are not majoring in music, but wish to know more about music as a part of their general education. Music correlated with the other arts through lectures and recordings.

Three one-hour periods per week.

10. Musicianship (fall, spring) 3 units

Elementary work in ear training, sight singing, and piano keyboard; designed to give the fundamentals of music in a direct and concise manner.

Required for all students working toward a teaching credential. Music majors not eligible.

Three one-hour periods per week.

11A-11B. Ear Training and Sight Singing (year) 2-2 units

Designed to give a thorough foundation in pitch, rhythm, and harmony in the major and minor modes. These elements are presented through rhythmic and melodic dictation, sight-singing, and melodic writing.

Prerequisite: Music 10.

Two one-hour periods per week.

11C. Advanced Ear Training and Sight Singing (fall) 2 units

Advanced work in harmonic ear training. Training in complex rhythms and chromatically altered melodies.

Prerequisite: Music 11A-11B.

Two one-hour periods per week.

20A-20B. Harmony (year) 3-3 units

Harmonization of melodies; scales, intervals, triads, the dominant seventh, non-harmonic tones, simple modulations, secondary seventh chords; keyboard harmony.

Three one-hour periods per week.

21A-21B. Advanced Harmony (year) 3-3 units

Essentials of advanced harmony embracing chromatic alterations, modulations by means of altered chords, use of all nonharmonic tones, original compositions, keyboard work.

Prerequisite: Music 20A-20B.

Three one-hour periods per week.

70A-70B. Piano (year) 1-2 unit

Class instruction open to any student who has a desire to learn to play the piano. No preliminary knowledge of piano is needed.

One one-hour period per week.

70C-70D. Intermediate Piano (year)**1-1/2 unit**

Class instruction open to any student who has had the equivalent of Music 70A-B.
One one-hour period per week.

71. Strings (fall)*2 units**

Violin, viola, 'cello, string bass. Study and practice of one or more of the string instruments supplemented by a study of arranging for string instruments, teaching methods, and the elementary physics of sound.

Two one-hour periods per week.

72. Brass Instruments (spring)*2 units**

Tone production, breathing, transportation, physics of sound, and arranging for brass instruments will be briefly covered in addition to the study of the instruments.

Two one-hour periods per week.

73. Woodwinds (fall)*2 units**

The problems of embouchure, breathing, care of the instrument, physics of sound, transposition, and elementary arranging will be covered. Each student will play one or more of the woodwind instruments, with additional theoretical study.

Two one-hour periods per week.

75A-75B. Beginning Violin (year)**1-1 unit**

Class instruction open to any student who has a desire to learn to play the violin.
Prerequisite: Music 71 or equivalent.

One one-hour period per week.

75C-75D. Intermediate Violin (year)**1-1 unit**

Class instruction in violin open to any student who has had the equivalent of Music 75B.

One one-hour period per week.

76A-76B. Voice (fall, spring)**1-1/2 unit**

Elementary class instruction in voice, designed to help students improve tone quality and musicianship of their singing.

One one-hour period per week.

76C-76D. Intermediate Voice**1-1/2 unit**

Class instruction open to any student who has had the equivalent of Music 76A-76B.

One one-hour period per week.

UPPER DIVISION**101-102. Music History (year)****3-3 units**

A chronological study of vocal and instrumental music from plainsong through modern music. Lectures integrating the history of music with other arts and general thought of the time. Music presented through recordings.

Three one-hour periods per week.

123. Counterpoint and Composition (fall)**2 units**

Strict counterpoint in all orders. Two-, three-, and four-part writing.

Two one-hour periods per week.

Prerequisite: Music 21A-21B.

124. Form and Analysis (spring)**2 units**

Review of simple part-forms and study of complex forms with analysis based on the principles of repetition and contrast.

Two one-hour periods per week.

Prerequisite: Music 123.

* Candidates for the Special Secondary Credential in Music may not receive degree credit in these courses. They may be waived on the basis of an examination.

- 131. Instrumental Arranging (fall) 2 units**
 A practical course in arranging music for various combinations of instruments, with special reference to school orchestras. To be taken in senior year.
 Prerequisite: Music 70, and consent of the instructor.
 Two one-hour periods per week.
- 141. Instrumental Conducting (spring) 2 units**
 Baton and rehearsal technique; the problems associated with various kinds of instrumental organizations; program building; principles of interpretation.
 Two one-hour periods per week.
- 146. Choral Conducting (spring) 2 units**
 Same as Music 141 but applied to choral singing.
 Two one-hour periods per week.
- 170A-170B. Advanced Piano (year) $\frac{1}{2}$ -1 unit**
 Class instruction open to any student who has had the equivalent of Music 70C-70D.
 One one-hour period per week.
- 176A-176B. Advanced Voice $\frac{1}{2}$ -1 unit**
- 190. Elementary Music Education (fall, spring) 2 units**
 (See Education 190M.)
 Survey of the field of public school music and practical devices for teaching music in the public school from the first grade through the junior high grades. Covers the philosophy of music and practical devices for teaching such phases as rhythm, singing, creative expression, music-listening, and playing of simple instruments. (Not applicable to a minor in Music.)
 Prerequisite: Music 60A or 65A-65B.

MUSICAL ORGANIZATIONS

- 50A, B, C, D; 150A, B, C, D. Orchestra (fall, spring) 1 unit**
 Affords qualified students an opportunity for study of good orchestral composition and for learning to play with interpretation, finish, and precision. Outside practice necessary.
 Prerequisite to Music 150: Music 50A, B, and consent of instructor.
 Two two-hour periods per week.
- 51A, B, C, D; 151A, B, C, D. Band (fall, spring) $\frac{1}{2}$ unit**
 Playing of both popular and symphonic band music. During the fall athletic season the band plays for athletic contests and rallies. Thereafter attention is devoted entirely to symphonic band music for playing in public concert.
 Prerequisite to Music 151: Music 51A, B.
 Two one-hour periods per week.
- 58-158. Piano Ensemble $\frac{1}{2}$ unit**
 Study of duo-piano works of all periods in music; also original piano duets. Interpretation and technique of ensemble playing.
 Two one-hour periods per week.
- 59-159. Chamber Ensemble $\frac{1}{2}$ unit**
 Study and performance of Chamber music of all periods. Class will include duo-piano and small instrumental ensembles.
 Two one-hour periods per week.
- 60A, B, C, D; 160A, B, C, D. College Chorus (fall, spring) $\frac{1}{2}$ unit**
 A musical organization open to any member of the student body without try-outs. It affords opportunity to become acquainted with some of the best music of the past and present. The chorus appears in several public performances during the year.
 Prerequisite for Music 160: Music 60A, B.
 Two one-hour periods per week.

65A, B, C, D; 165A, B, C, D. A Cappella Choir (year) 1-1 unit

A selected group of singers who sing a cappella literature ranging from the sixteenth century to the present. Principles of style and interpretation, voice production, and other attributes of musicianly singing are dwelt upon to a much greater extent than is possible in the College Chorus. The choir gives many concerts and usually goes on tour in the spring of each year.

Prerequisite for Music 165: Music 65A-65B.

Two two-hour periods per week.

APPLIED MUSIC

Credit for private lessons will be given on the basis of one unit for one half-hour lesson per week and the necessary practice for the lesson for a semester, at the fees indicated below.

(Class lessons in each of these fields are covered by regular tuition, without extra charge.)

Anyone interested in private lessons in woodwinds or brasswinds may make arrangements with Mrs. Jeffers.

80-180. Private Lessons—Piano 1 unit

Miss Jackson, \$8 per month; Mr. Fulkerson, \$5 per lesson; Mrs. Jeffers, \$2 per half hour.

81-181. Private Lessons—Violin 1 unit

Mrs. Griffith, \$2 per lesson (45 minutes).

84-184. Private Lessons—Organ 2 units

Miss Jackson, \$10 per month (hour lessons).

86-186. Private Lessons—Voice 1 unit

Mr. Barlow, \$2 per lesson.

SPEECH

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN SPEECH AND ENGLISH

LOWER DIVISION

Speech	12 units
(Speech 1, 2, 3, plus 3 elective units in Speech)	
English	12 units
(English 1A-1B, 46A-46B)	
Mathematics (Elementary Algebra and Plane Geometry if not taken in high school)	
Natural Sciences	12 units
(See page 39)	
Orientation II	1 unit
Physical Education	2 units
(Including 5 or 15)	
Psychology 1	3 units
Social Sciences	12 units
(Including one year-course and fulfillment of requirement in U. S. History and Constitution. See page 39.)	
Electives	6 units
(Chosen from Music 3-4, Art 1-2, Foreign Language or Philosophy 6A-6B)	
Completion of lower division requirements for a secondary minor. (See list on page 41.)	

UPPER DIVISION

Speech	18 units
(Speech 155, 156, 171, plus 9 units chosen from: Speech 102, 103, 112, 118, 125, 130, 141, 180)	
English	6 units
(English 112 or 115, 136A, 136B, or 162)	
Education	16 units
(Education 110, 111, 115, 124, 153, 195Sp, 170; see recommended sequence on page 59)	
Completion of upper division requirements for a secondary minor.	

OTHER REQUIREMENTS

Electives to bring total to 120 units, thus completing requirements for the A.B. Degree.
For admission to the graduate year, the student must maintain the following scholarship standards:

Index on all work taken in the upper division	1.50
Index on all work taken in the major field	1.50
Index on all work taken in Education courses	1.00
Index on all work taken in the minor field	1.00

GRADUATE YEAR

Speech	6 units
(Chosen from Speech 255, 256, 272, or 281)	
Education	12 units
(Education 270, 340, and 4 units from 212, 265, or 299)	
Major, minor, or electives	6 units
An index of 1.75 is required on all work taken in the graduate year.	
A minimum of 24 units in the graduate year is required. Part of this work may be taken in approved upper division courses.	

Special Secondary Credential in Speech Correction

This credential may be secured by meeting the requirements of the State Board of Education. Over one-half of the requisite courses may be taken here and the rest at another institution specializing in this field. For particulars, see the Registrar.

LIBERAL ARTS DEGREE CURRICULA IN THE SPEECH FIELD**BASIC REQUIREMENTS COMMON TO ALL
LOWER DIVISION**

Speech	12 units
English	12 units
(English 1A-1B, 46A-46B)	
Mathematics (Elementary Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences	12 units
(See page 39)	
Physical Education	2 units
(Including Phys. Educ. 5 or 15)	
Psychology 1	3 units
Social Sciences	12 units
(Including one year-course and fulfillment of requirements in U. S. History and Constitution. See page 39)	
Electives	6 units
(Chosen from Art, Music, Foreign Language, Philosophy)	

UPPER DIVISION

Speech	24 units
--------------	----------

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor, chosen from the list of minors on page 40, and must maintain a "C" average in all work taken toward the degree, and in all work taken in the major and minor.

The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to requirements in foreign language.

SPECIFIC REQUIREMENTS FOR DIFFERENTIATED MAJORS**SPEECH AND ENGLISH**

(For other requirements, see basic requirements given above.)

LOWER DIVISION

Speech (1, 2, 3, plus 3 lower division units)	12 units
---	----------

UPPER DIVISION

Speech (155, 156, 165)	9 units	} 24 units
English (112 or 115, 136A or 136B, 162)	9 units	
Speech or English in addition to above	6 units	

RADIO-SPEECH

(For other requirements, see page 85)

LOWER DIVISION

Speech (1, 2, 3, 17)	12 units
Journalism 20	3 units
Business Administration 2A (or equivalent), 50	2-4 units
Industrial Education 50	3 units

(This course may be applied toward the requirement in natural science for radio majors.)

UPPER DIVISION

Speech	24 units
Including Speech 118, 120, 121, 122, 123)	
English 112 plus 3 upper division units	6 units

SPEECH AND DRAMATICS

(For other requirements, see page 86)

LOWER DIVISION

Speech (1, 2, 3, plus 3 lower division units) ----- 12 units

UPPER DIVISION

Speech 112, 155, 156, 171, plus 12 upper division units, 6 of which may be approved courses in English) ----- 24 units

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Teaching Minors for Candidates for General Secondary Credential</i>	
	<i>Speech</i>	<i>Radio-Speech</i>
Lower		
Division__Speech 1 ____ 3 units	Speech 1____ 3 units	Speech 1____ 3 units
Speech 2 ____ 3 units	Speech 2____ 3 units	Speech 2____ 3 units
Speech 3 ____ 3 units	Speech 3____ 3 units	Speech 17____ 3 units
Electives ____ 3 units	3 units chosen from: Speech 10, 18, 25, 30 3 units	Speech 18 or 25 2 units
Upper		
Division__Speech 155 __ 3 units	Speech 155____ 3 units	Speech 118A-B 6 units
Speech 156 __ 3 units	Speech 156____ 3 units	Speech 120____ 3 units
Speech 165 __ 3 units	Speech 165____ 3 units	Speech 121____ 3 units
Electives ____ 6 units		
Total units required__	27 units	21 units

Additional requirements for the Junior High School Credential are given in detail on pages 55-57.

	<i>Minors</i>	
	<i>Radio</i>	<i>Speech-Dramatics</i>
Lower Division-----	Speech 1____ 3 units Speech 2____ 3 units	Speech 1____ 3 units Speech 3____ 3 units
Upper Division-----	Speech 121____ 3 units Speech 122____ 3 units 12 units	Speech (U.D.) 6 units 12 units

DESCRIPTION OF COURSES

LOWER DIVISION

1. Fundamentals of Speech (fall, spring) 3 units

An introductory course in public speaking and reading aloud, involving the study of voice control, delivery techniques, speech composition, types of readings and speeches, and phonetics.

Three one-hour periods per week.

2. Oral Interpretation of Literature (fall, spring) 3 units

A basic course in voice training and in the art of oral interpretation. Oral interpretation of poetry, short stories, and dramatic scenes from the standpoint of both emotional and intellectual reaction.

Three one-hour periods per week.

Prerequisite: Speech 1.

3. Public Speaking (fall, spring) 3 units

A basic course in the fundamentals of speech planning and delivery. The course aims to develop self-confidence and poise through oral expression and to awaken interest in the events and problems of the modern world.

Three one-hour periods per week.

Prerequisite: Speech 1.

10. Technique of Acting (spring) 3 units

This course embraces the basic principles of Dramatic Art. It teaches the fundamentals of pantomime, impersonation, and oral expression. It is designed for students with little or no stage experience who wish to improve their speaking voices and to develop poise and self-confidence.

Three two-hour periods and one one-hour period per week.

17. Survey of Radio Broadcasting (fall, spring) 3 units

An introductory course to radio involving the history of broadcasting, government regulations; station organization and management; network organizations; methods of production and broadcasting; commercial methods and policies; educational broadcasting and broadcasters; public service responsibilities; and the future of radio.

Three one-hour class periods per week.

18A, B, C, D. Radio Workshop (fall, spring) 1 or 2 units

Students in this course are responsible for the College's radio programs presented over the local radio stations. They write, direct, produce, and enact the programs. Though the emphasis is on learning by doing, the student is encouraged to explore all aspects of radio and become familiar with the best production procedures.

One one-hour period per week and three hours DHR in the broadcast studios.

19. Radio Speech (spring) 3 units

The theory and practice of radio broadcasting as distinguished from platform speaking. Class practice with proven broadcasting materials of all kinds.

Prerequisite: Speech 1 and 2 or the consent of the instructor.

Three one-hour periods per week.

25A, B, C, D. Dramatic Workshop (fall, spring) 1-3 units

A laboratory course in acting and in the technical practices of the stage, including construction of sets, stage lighting, theatrical costume and make-up. Time is spent in the actual work of preparing plays for public performance, and one one-hour lecture per week.

One one-hour and three two-hour periods per week (for three units of credit).

***30. Playwriting (fall) 3 units**

A course in the critical analysis of dramatic structure and techniques designed for the student interested in dramatic literature, play directing, or the writing of original plays for the stage and radio. The superior contributions of this class will be staged in the "Hilarities," one-act play assemblies, and in the College radio studio.

Prerequisite: English 1A-1B or consent of instructor.

Two two-hour periods per week.

80. Speech Clinic (fall, spring) 1-1 unit

Individual instruction for students having minor disturbances of voice or speech as well as those having more serious disorders. Consent of the instructor must be obtained for enrollment.

Two one-hour periods per week.

* Not given 1948-49.

UPPER DIVISION

Speech 1, and 2 or 3 or consent of instructor are prerequisite to all upper division courses.

102. Advanced Expression and Interpretation (spring) 3 units

A course in reading aloud in which particular attention will be paid to the specific interests, needs, and abilities of the individual student, which determine his activities in class. Special attention is given to the needs of prospective teachers with respect to reading aloud in the classroom.

Prerequisite: Speech 2.

Three one-hour periods per week.

103. Advanced Public Speaking (fall) 3 units

This course embraces a more detailed study of speech planning, the techniques of presentation, and the forms of address. Extensive practice in extemporaneous speaking.

Prerequisite: Speech 3.

Three one-hour periods per week.

112. Phonetics (fall) 3 units

Principles of phonetics; pronunciation, based on contemporary American usage; phonetic analysis applied to speech improvement.

Three one-hour periods per week.

117. Survey of Radio Broadcasting (spring) 3 units

A course of the same character as Speech 17 intended for students working toward a radio minor in a credential curriculum. A radio research problem will be undertaken by the members of this class.

Three one-hour class periods per week.

118A, B, C, D. Advanced Radio Workshop (fall, spring) 1 unit

A course of the same character as Speech 18 for advanced students.

Prerequisite: Speech 18 or consent of the instructor.

One one-hour period and three hours DHR in the broadcasting studios.

120. Radio Writing (spring) 3 units

Study of the techniques and devices used in writing radio plays, continuity, forms, commercial announcements, special events programs, talks, public service programs, etc. Critical study of scripts. Many of the programs developed by this class will be broadcast from the college studio.

Prerequisite: English 1A-1B or consent of instructor.

Three one-hour periods per week.

121. Radio Production Directing (fall) 3 units

Study of the program director's job in the average radio station, including the planning, organization, and handling of all types of radio programs: special events broadcasts, commercial programs, interviews, dramatic programs, network programs, and types of recorded programs.

Prerequisite: Speech 17 or 117 or consent of instructor.

Three one-hour periods per week.

122. Radio Sales and Commercial Operation (fall) 3 units

Study of the business manager's job in the average radio station; analysis of the costs in running a station, copy analysis and placement according to type, sales methods, analysis of programs in relation to sales possibilities, sales demands and their effect on program types, Federal Trade Commission regulations, national advertising associations, costs of programs (time and talent), making of contracts, analysis of the jobs of the essential personnel of the station, etc.

Prerequisite: Speech 17 and 121 or consent of instructor.

Three one-hour periods per week.

123. Advanced Radio Production (spring) 3-8 units

A study of the many aspects of the radio profession through "on the job" participation in the studios of stations KIEM and KHUM in Eureka and at the Intercollegiate Broadcasting System studios of the college. This course will be offered only to superior students who have completed 17 or 117, 18, 118, 120, 121, and 122.

- *124. Music in Radio Broadcasting (spring) 3 units**
 A study of the various uses of music in the radio program involving the building and production of musical programs; composing and conducting; writing musical continuity; arranging music for dramatic radio; and inspection of the functional importance of music and its practical use in current programs.
 Prerequisite: Speech 17 or 117, 18 or 118, 121.
 Three one-hour periods per week.
- 125A, B, C, D. Advanced Dramatic Workshop (fall, spring) 1-2 units**
 A course of the same character as Speech 25 for advanced students.
 Prerequisite: Speech 1, 2 or 3 or consent of the instructor.
 Three two-hour periods per week.
- *130. Advanced Playwriting (fall) 3 units**
 A continuation of Speech 30, with opportunity for each student to concentrate his activities in any one of the following fields of playwriting: one-act plays, radio plays, skits, blackouts, three-act plays, for possible production by the college drama department.
 Prerequisite: English 1A-1B or consent of instructor.
 Two two-hour periods per week.
- 141. Discussion Methods and Parliamentary Procedure 2 units**
 Techniques of group discussion including the conference, panel, and symposium forms; practical experience in discussion of current problems; the study of parliamentary law and its application to the organization and functioning of groups.
 Two one-hour periods per week.
- 155. Play Production (spring) 3 units**
 A lecture and laboratory course designed primarily for teachers and students who intend to engage in the work of directing plays. Attention is given to the choice of material for amateur theatricals from a wide range of plays by representative dramatists, directing techniques, make-up, costuming, publicity, and advertising, ticket sales, house management, etc. This course includes the casting, directing, and producing of a one-act play as a final project for each student.
 Two two-hour and one one-hour periods per week.
- 156. Play Production (fall) 3 units**
 A lecture and laboratory course designed primarily for teachers and students who intend to engage in the work of staging play productions. This advanced course includes stage designing, construction, painting, lighting, sound effects, furniture, and furnishings.
 Three one-hour and one two-hour periods per week.
- *165. Speech and Drama in the Elementary and Junior High School (fall) 3 units**
 A course designed for the teacher who is responsible for directing plays, who is interested in using dramatic activities or who seeks to improve classroom procedure by the use of discussion techniques. Conducted in seminar style, the class is a workshop for the consideration of such problems as the following: conducting round tables, panels, symposia, and forums; coaching debaters; choosing school plays; using speech and dramatics in the classroom; planning parties and social-recreational activities; planning speech activities in courses of study; selecting textbooks.
 Three one-hour periods per week.
- *171. Survey of the Drama (spring) 3 units**
 A course in the historical development of the drama, covering representative plays from the Greeks to those of present-day playwrights—Continent, England, and America.

* Not given 1948-49.

180. Speech Correction (fall)

3 units

The classification, diagnosis, and treatment of speech defects. Theory supplemented by demonstrations and supervised practical work with children and adults in the speech clinics. Intended particularly for training prospective teachers to recognize and correct speech defects of elementary school children.

Three one-hour class periods and one two-hour laboratory period per week.

199. Directed Study in Speech Problems (fall, spring)

1-3 units

Student assists in speech training. Consent of instructor required for enrollment.

Hours to be arranged with the instructor.

GRADUATE DIVISION

255. Advanced Stage Direction (spring)

3 units

The purpose of this course is to train teachers in the techniques of dramatic direction. The student will study problems in theory involving an examination of the various historic and modern styles of acting. Each student will produce a full length play and will prepare a prompt-book based on the production.

Prerequisite: Graduate standing and consent of instructor.

256. Stage Design, Construction, Painting and Lighting

3 units

The purpose of this course is to train teachers in the technical aspects of play production. Each student will be given intensive training in planning, building, painting, and lighting stage sets for assemblies and dramatic productions.

Two one-hour lectures and two two-hour laboratory periods per week.

272. Modern American Drama

3 units

A course in the American theater and its staging, acting, and drama from the Civil War to the present day. Primary emphasis in the course is placed upon the theater and drama from 1918 to the present. The course is conducted through lectures, assigned reading, discussions, and assigned reports.

Three one-hour periods per week.

281. Advanced Speech Correction

3 units

Emphasis is placed upon the more serious types of speech disorders. Special attention is given to making case studies and speech surveys as well as to methods of testing and diagnosis. Supervised clinical practice.

Three one-hour class periods and one two-hour laboratory period per week.

THE DIVISION OF HEALTH AND PHYSICAL EDUCATION

OBJECTIVES

The Division of Health and Physical Education has five separate and distinct functions:

1. To give all students an opportunity to acquire skill in a variety of wholesome and recreational physical activities which shall aid in maintaining health and providing development of self-expression in individual and group activities.

2. To provide curricula leading to:

- a. General Secondary Credential with major in Physical Education, enabling the student to teach in the secondary schools of the State. This program involves a year of graduate study.

- b. The Special Secondary Credential in Physical Education, enabling the student to teach Physical Education in the elementary and secondary schools of the State.

3. To provide opportunity for those interested in physical education activities to acquire techniques and principles which will enable them to serve as volunteer leaders in community groups, to prepare the prospective teacher who may find himself assigned to this field in conjunction with his specialized teaching area, and to develop an appreciation on the part of all future teachers of the vital importance of health and hygiene in the total school program.

To realize these goals, a junior high school major and a minor are offered in each subject field (i.e., physical education, and health and hygiene).

4. To prepare the general elementary teacher to handle intelligently the physical education program in the elementary schools.

5. To provide curricula leading to the A.B. Degree for graduate nurses and pre-nursing students. Also, to provide a one-year course for pre-nursing candidates who wish to continue their work elsewhere.

6. To provide a two-year terminal course in Recreational Leadership for directors of camps and recreation programs.

PHYSICAL EDUCATION

REQUIREMENT IN PHYSICAL EDUCATION ACTIVITIES

Students who are enrolled in the college for 12 or more units are required to take an activity course twice weekly during the first four semesters of attendance. Persons 21 years of age and veterans may be exempt from this requirement by written consent of the Division.

Women students will take one activity from each of the following groups: (a) Freshmen Activities; (b) team sports; (c) dance; (d) individual sports. Freshmen women are required to take PE 15 and PE 31.

Freshmen men will take PE 5 and either PE 31 or team sports (PE 6 or 7) or varsity sports.

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN PHYSICAL EDUCATION

LOWER DIVISION

Physical Education -----	16 units
(P.E. 3, H.H. 1, 55; 6 units in Activities or electives; Men: P.E. 1A-1B-1C-1D; Women: P.E. 2A-2B-2C-2D.)	
English 1A-1B -----	6 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school.)	
Natural Science -----	At least 12 units
(Including Biology 10A-10B or Zoology 1A, Anatomy 66, Physiology 1. Recommended: Chemistry 1A.)	
Orientation II -----	1 unit
Psychology 1 -----	3 units
Social Sciences -----	12 units
(Including one year-course, and fulfillment of requirements in U. S. History and Constitution. See page 39.)	
Speech 1 -----	3 units
Electives -----	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, English 46A-46B or 74A-74B.)	
Completion of lower division requirements for a secondary minor. (See page 41.)	

UPPER DIVISION

Physical Education -----	24 units
(P.E. 151, 152, 153, 154, 175, 178, 191, H.H. 160, 161; Men: 192A-192B; Women, 193A-193B.)	
Education -----	16 units
(Education 110, 111, 115, 124, 153, 170, 195 H.H. and 195 P.E.)	
Completion of upper division requirements for a secondary minor.	

OTHER REQUIREMENTS

Electives to bring total to 120 units.	
For admission to the graduate year, the student must maintain the following scholarship standards:	
Index on all work taken in the upper division-----	1.50
Index on all work taken in the major field-----	1.50
Index on all work taken in Education courses-----	1.00
Index on all work taken in the minor field-----	1.00

GRADUATE YEAR

Physical Education -----	5-6 units
(Chosen from P.E. 270, 278, 289, 292, 299)	
Education -----	10-12 units
(Education 270, 340, and 4 units from 212, 265, and 299)	
Major, minor, or electives-----	6-8 units
An index of 1.75 is required on all work taken in the graduate year.	
A minimum of 24 units in the graduate year is required. Part of this work may be taken in approved upper division courses.	

REQUIREMENTS FOR THE A.B. DEGREE WITH A SPECIAL SECONDARY CREDENTIAL IN PHYSICAL EDUCATION

LOWER DIVISION

The subject requirements are the same as prescribed for the General Secondary Credential. See page 92.

UPPER DIVISION

Physical Education -----	24 units
(P.E. 151, 152, 153, 154, 175, 178, 191, H.H. 160, 161; Men: 192A-192B; Women: 193A-193B.)	
Education -----	20 units
(Education 110, 111, 115, 124, 153, 170, 190 P.E., 195 H.H., 195 P.E., 322 and 342)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120, 80 units of which must be completed outside the field of Health and Physical Education.

The candidate must complete a minor, chosen from the list of minors on page 41, and must maintain a "C" average in all work taken, in the major and minor fields, and in all Education courses taken.

RECREATIONAL LEADERSHIP

A two-year terminal course is suggested for students who would like to obtain employment in municipal recreation centers, state or national parks, summer camps, or other recreational areas, or for the training of volunteer workers in community youth projects. Certain basic courses are outlined, and the rest of the program may be made up from electives selected on the basis of the student's interests and vocational objectives.

RECOMMENDED SEQUENCE**Freshman Year**

	Sem. 1	Sem. 2
Botany 4 (Classification of Flowering Plants) -----	—	3
English 1A-1B (Reading and Composition) -----	3	3
Health and Hygiene 1 (Hygiene) -----	2	—
Health and Hygiene 55 (First Aid) -----	—	2
Physical Education 1A-1B or 2A-2B -----	1	1
Physical Education 77 (Recreation and Campcraft) -----	—	2
Sociology 1A-1B (Principles) -----	3	3
Zoology 4 (Animal Classification) -----	3	—
Electives -----	3	1
	15	15

Sophomore Year

History 70 (U. S. History) -----	2	—
Physical Education 31 (Introductory Social Dancing) -----	$\frac{1}{2}$	—
Physical Education 33 (Folk Dancing) -----	—	$\frac{1}{2}$
Physical Education 88 (Club Leadership) -----	2	—
Physical Education 176 (Community Recreation) -----	—	2
Political Science 51 (U. S. Constitution) -----	—	2
Psychology 1 (General) -----	—	3
Speech 1 (Fundamentals) -----	3	—
Electives -----	$7\frac{1}{2}$	$7\frac{1}{2}$
	15	15

Recommended Electives: Art 40 (Crafts); 50 (Photography); Speech 18 (Radio Workshop); 25 (Dramatic Workshop); Geology 1A; Zoology 65 (Ornithology); Wildlife Management 2 (Conservation); 5 (Techniques); English 178 (Children's Literature); P. E. 194A-B (Officiating); Music Activities; Sociology 103 (Crime and Delinquency); or 106 (The Community). The student must comply with rules governing admission to upper division classes.

REQUIREMENTS FOR

<i>Junior High School Major</i>		<i>Minor</i>		<i>Minor for Candidates for General Secondary Credential</i>	
Lower Division		Lower Division		Lower Division	
H.H. 1 -----	2 units	H.H. 1 -----	2 units	H.H. 1 -----	2 units
H.H. 55 -----	2 units	H.H. 55 -----	2 units	H.H. 55 -----	2 units
P.E. 3 -----	2 units			P.E. 3 -----	2 units
P.E. 77 -----	2 units			P.E. 77 -----	2 units
Men		Men		Men	
P.E. 1 -----	4 units	P.E. 1A-1B ---	2 units	P.E. 1 -----	4 units
Women		Women		Women	
P.E. 2 -----	4 units	P.E. 15 -----	$\frac{1}{2}$ unit	P.E. 2 -----	4 units
		P.E. 16A -----	$\frac{1}{2}$ unit		
		P.E. 17A -----	$\frac{1}{2}$ unit		
		P.E. 18A -----	$\frac{1}{2}$ unit		
Upper Division		Upper Division		Upper Division	
Educ. 195HH ---	2 units	Educ. 195HH ---	2 units	A minimum of --- 9 units (Chosen with the approval of Divisional Chairman)	
H.H. 161 -----	2 units	P.E. 190 -----	2 units		
P.E. 175 -----	3 units	P.E. 191 -----	1 unit		
P.E. 176 -----	2 units				
P.E. 190 -----	2 units				
P.E. 191 -----	1 unit				
Men		Men			
P.E. 192 -----	4 units	P.E. 192 -----	4 units		
Women		Women			
P.E. 193 -----	4 units	P.E. 193 -----	4 units		
Totals units required :					
28 units		15 units		21 units	

Additional requirements for the Junior High School Credential are given in detail on pages 55-57.

DESCRIPTION OF COURSES

Courses for Men
LOWER DIVISION

1A-B-C-D. Physical Education Activities 1 unit each course

Required of all men who elect physical education as a major and to be taken in the lower division. The object of the courses is to develop skill in and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Along with learning these skills, the student will learn sound technics in teaching.

5. Freshman Physical Activities (fall, spring) $\frac{1}{2}$ unit

Fundamentals of team and individual sports, together with some achievement tests.

Required of all freshmen and limited to freshmen.

Two one-hour periods per week.

6A, B. Team Sports (fall) $\frac{1}{2}$ unit

Touch football, volleyball, and handball.

Two one-hour periods per week.

7A, B. Team Sports (spring)	$\frac{1}{2}$ unit
Basketball, track, and softball. Two one-hour periods per week.	
8A, B. Individual Sports (fall, spring)	$\frac{1}{2}$ unit
Boxing, wrestling. Two one-hour periods per week.	
9A, B. Individual Sports (fall, spring)	$\frac{1}{2}$ unit
Tumbling and Trampoline. Two one-hour periods per week.	
10A, B. Body Building (spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
50A, B, C, D. Intercollegiate Football (fall)	1 unit
Varsity and Junior Varsity teams. Daily afternoon practice.	
51A, B, C, D, E, F, G, H. Intercollegiate Basketball (fall and spring)	$\frac{1}{2}$ unit
Varsity and Junior Varsity teams. Daily afternoon practice.	
52A, B, C, D. Intercollegiate Baseball (spring)	1 unit
Varsity and Junior Varsity teams. Daily afternoon practice.	
53A, B, C, D. Intercollegiate Track (spring)	1 unit
Varsity team. Daily afternoon practice.	
54A, B, C, D, E, F, G, H. Intercollegiate Boxing	$\frac{1}{2}$ unit
Two one-hour periods per week.	

UPPER DIVISION

192A. Theory of Athletics (fall)	2 units
Coaching techniques in football and basketball. Prerequisite: Upper division status. Two one-hour periods per week.	
192B. Theory of Athletics (spring)	2 units
Coaching techniques in baseball, track and field. Prerequisite: Upper division status only. Two one-hour periods per week.	
194A. Football Officiating (fall)	1 unit
The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials. One two-hour period per week.	
194B. Basketball Officiating (fall)	1 unit
The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials. One two-hour period per week.	

Courses for Women**LOWER DIVISION**

2A, B, C, D. Physical Education Activities	1 unit each course
---	---------------------------

Required of all women who elect physical education as a major and to be taken in the lower division. The object of the courses is to develop skill in and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Along with learning these skills, the student will learn sound technics in teaching.

15. Freshman Physical Activities (fall) ½ unit

A course to give the entering student an opportunity to participate in activities which demand and develop fundamental skills, such as running, throwing, catching, and relaxing, in at least one team game, and in activities which help correct the more prevalent deviations from normal body mechanics.

Required of all freshmen women and limited to freshmen.

Two one-hour periods per week.

16A, B, C. Team Sports (fall) ½ unit

Field hockey, soccer, speedball.

Two one-hour periods per week.

17A, B, C, D. Team Sports (spring) ½ unit

Basketball, softball, volleyball.

Two one-hour periods per week.

18A. Beginning Dance (fall) ½ unit

Introduction to modern dance technique.

Two one-hour periods per week.

18B. Intermediate Dance ½ unit

Two one-hour periods per week.

18C. Advanced Dance ½ unit

Two one-hour periods per week.

UPPER DIVISION

193A. Methods of Teaching Team Sports 2 units

Field hockey, soccer, softball, volleyball, speedball, basketball.

Prerequisite: Previous participation.

193B. Methods of Teaching Individual Sports 2 units

Tennis, archery, badminton, recreational sports.

Prerequisite: Previous participation.

Courses for Men and Women

LOWER DIVISION

3. Introduction to Health and Physical Education (spring) 2 units

The origins, aims and objectives of the modern school program in health and physical education are studied to enable the student to formulate a fundamental background and a basic philosophy for his profession. There is an emphasis on integration with the total school program.

25A, B, C, D. Individual Exercise Program (fall, spring) ½ unit

A program of special exercise and activity suited to the individual student.

Two one-hour periods per week.

27A. Elementary Tennis (fall, spring) ½ unit

Two one-hour periods per week.

27B. Intermediate Tennis (fall, spring) ½ unit

Two one-hour periods per week.

27C. Advanced Tennis (fall, spring) ½ unit

Two one-hour periods per week.

28A. Elementary Archery (fall, spring) ½ unit

Two one-hour periods per week.

28B. Advanced Archery (fall, spring) ½ unit

Two one-hour periods per week.

- 29A. Badminton** (fall, spring) 1 unit
 Badminton, deck tennis, paddle tennis, table tennis.
 Two one-hour periods per week.
- 29B. Advanced Badminton** (fall, spring) 1 unit
 Two one-hour periods per week.
- 30A. Elementary Golf** (fall, spring) 1 unit
 Two one-hour periods per week.
- 30B. Advanced Golf** (fall, spring) 1 unit
 One two-hour period per week.
- 31. Introductory Social Dancing** (fall) 1 unit
 An introductory course including both ballroom and folk dancing.
 Two one-hour periods per week.
- 32. Ballroom Dancing** (spring) 1 unit
 Basic dance techniques; fox trot, waltz, tango, and current routines. Dance etiquette.
- 33. Folk Dancing** (fall, spring) 1 unit
 Two one-hour periods per week.
- 55. Intercollegiate Tennis** (spring) 1 unit
 Daily afternoon practice.
- 56. Intercollegiate Golf** (spring) 1 unit
 Daily afternoon practice.
- 77. Recreation and Campcraft** (spring) 2 units
 Thorough theoretical background and some practical laboratory experience in playground work.
- *88. Club Leadership** 2 units
 History of boys' and girls' club work; the basic principles and conceptions of these movements; the organization of such a program in the community; requirements for adult leadership; summer camps. This course will include practice in laboratory field work.

UPPER DIVISION

- 151. Applied Kinesiology** (fall) 3 units
 Study of the anatomy of muscles, bones, joints and of the nervous system as a basis for understanding bodily movement in exercise and sports.
 Three one-hour periods per week.
- 152. Methods in Corrective Physical Education** (spring) 2 units
 The principles underlying good body mechanics; the causes, correction, and prevention of postural defects; methods of relaxation; the place of Corrective Physical Education in the school program; equipment facilities and procedure; fundamentals and practice of massage. Much of the work is practical.
 Prerequisite: Physical Education 151.
 Two one-hour periods per week.
- 153. Physiology of Exercise** (fall) 3 units
 The physiological effects of muscular exercise, athletic training and physical conditioning are studied. The significance of these effects are evaluated in terms of performance in physical education activities and interscholastic competition.
 Prerequisite: Physiology 1 and Anatomy 66.
 Three one-hour periods per week.
- 154. Tests and Measurements in Physical Education** (fall) 2 units
 The use of tests and measurements in physical education; evaluation of objectives, programs and student achievement through measurement and evaluative techniques.
 Prerequisite: Education 115 (may be taken concurrently).

175. History and Principles of Physical Education (fall) 2 units

The evaluating of the history of physical education, the weighing of current problems in the field, the setting up of a code of ethics for professional workers, and the formulating of aims and objectives.

Three one-hour periods per week.

176. Principles of Community Recreation (spring) 2 units

A consideration of the principles involved in developing an ideal program of recreation. Some practical experience in organizing college recreational activities is required.

Two one-hour periods per week.

178. Organization and Administration of Secondary School Physical Education (fall, spring) 2 units

Two one-hour periods per week.

190. Elementary School Physical Education (fall, spring) 2 units
(See Education 190PE.)

The organization of the physical education program in grades one through eight. One class, two activity, and one observation hours per week.

191. Methods in Singing Games and Folk Dances (fall, spring) 1 unit

Participation in and conduct of rhythms suitable for children of the elementary school and junior high school.

Two one-hour periods per week.

GRADUATE DIVISION**252. Therapeutic Exercise and Physiotherapy 3 units**

A presentation of the theory and practice of muscle reeducation based upon principles of active and passive exercise. Range of joint motion, manual muscle testing and forced motion are included. A study of the active and passive phases of physiotherapy. This includes exercises, assistive and active, uses of massage, heat, light, and hydrotherapy.

270. Seminar in Physical Education 2 units

Each semester a seminar dealing with a selected aspect of health, physical education or recreation is made available to qualified graduate students.

277. Campcraft and Leadership 3 units

Organization of summer camps; various types will be studied including those of national organization, private camps, and informal groups. A study of the qualifications, duties, and relationships of the counselor to the camp.

278. Advanced Administration 2 units

Organization of administrative programs; advanced problems of administration; integration with the total school program; budgeting, equipment and building needs; relation of various functional units.

289. Techniques of Research in Physical Education 2-3 units

Research and investigation in the problems of health, physical education and recreation. Hours to be arranged in terms of the investigation.

292. Advanced Coaching Techniques 2 units

The theory and practice of advanced coaching techniques as related to inter-scholastic and collegiate competition.

299. Problems in Health, Physical Education and Recreation 2-4 units

A study of selected problems in health, physical education and recreation. A survey of current problems facing the physical educator from a review of literature, consideration of trends and analysis and evaluation of school situations.

HEALTH AND HYGIENE**REQUIREMENTS FOR A.B. DEGREE FOR GRADUATE NURSES**

Graduate nurses from accredited nursing schools with three years of training may be granted the Bachelor of Arts Degree upon the completion of an approved program of study. This program includes the following courses:

LOWER DIVISION

English 1A-1B	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences	12 units
(To be chosen in consultation with student's adviser. Chemistry or Physics taken in the senior year of high school for which grades of A or B were received may count in fulfillment of three units of this requirement.)	
Physical Education Activities	2 units
Psychology 1	3 units
Social Sciences	12 units
(Including one year-course and fulfillment of requirement in U. S. History and Constitution. See page 39.)	
Electives	6 units
(Chosen from Art, Foreign Language, Music, Philosophy, Speech, or English 46A-46B, or 74A-74B.)	
Electives to bring total of units up to 60.	

In this curriculum, the major requirements are satisfied by the work in nursing, for which a total of 60 units is allowed. However, the candidate must complete a minor in one of the fields listed on page 40 and must maintain a "C" average in all college work.

REQUIREMENTS FOR THE A.B. DEGREE FOR PRE-NURSING STUDENTS

Students who complete an approved two-year curriculum in the State College followed by graduation from an accredited nursing school based upon three years of training, may receive the A.B. Degree from the College. The essential requirements for a degree established by the State Department of Education must be fulfilled. The major requirement is presumed to be satisfied by the work in nursing, a total of 60 units being allowed for the three-year nursing course. Adjustments in the program may be made to suit the curricular requirements of the hospital to which the student expects to transfer.

LOWER DIVISION

English 1A-1B	6 units
Home Economics 20	2 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Sciences	21 units
(Chemistry 1A, Anatomy 66, Bacteriology 1, Physiology 101, and Zoology 160 or Biology 103 or 114)	
Physical Education	2 units
(Including Phys. Educ. 15)	
Psychology 1	3 units
Social Sciences	12 units
(Including one year-course and fulfillment of requirement in U. S. History and Constitution. See page 39.)	
Electives	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B or 74A-74B)	
Electives to total 60 units.	

University of California School of Nursing

Students who expect to enter hospitals maintained by the University of California or Stanford University must conform to the entrance requirements for those institutions, and plan their college programs to meet the undergraduate patterns prescribed. In general, the courses outlined below fulfill the requirements for transfer to the University of California School of Nursing.

Subject A

Elementary Algebra and Plane Geometry (if not taken in high school)	
Year course ¹	6 units
English 1A-1B or Speech 1, and 2 or 3	6 units
Foreign Language ¹	16 units
Natural Science	18 units
(Chemistry 1A, Bacteriology 1, Anatomy 66, Physiology 1)	
Philosophy 6A-6B	6 units
Physical Education	2 units
Psychology 1	3 units
Political Science 51 and History 70	4 units

Eventual candidates for a Public Health credential should add to this list Chemistry 1B, 5, and 8, and consult University requirements in choice of year course.

One-Year Curriculum

The one-year pre-nursing program has been outlined to meet the needs of students who wish to take their professional training in one of the nursing schools which require one year of college work as prerequisite to admission.

Recommended Sequence

	Sem. 1	Sem. 2
Anatomy 66	3	—
Bacteriology 1	5	—
Chemistry 1A	5	—
English 1A	—	3
Physiology 1	—	5
Psychology 1	—	3
Electives	2	3
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	14 $\frac{1}{2}$

MAJOR AND MINOR REQUIREMENTS

For students enrolled in the credential curricula, either a major or a minor is available in the field of Health and Hygiene. The minor may also be selected by students majoring in other departments of the College. The requirements are as follows:

		<i>Minor for Candidates for General Secondary Credential</i>	
<i>Junior High School Major</i>	<i>Minor</i>		
Lower Division		Lower Division	
H.H. 1	2 units	H.H. 1	2 units
H.H. 55	2 units	H.H. 55	2 units
H.Ec. 20	2 units	H.Ec. 20	2 units
Physiol. 1	5 units	Anatomy 66	3 units
Upper Division		Upper Division	
H.H. 151	3 units	Ed. 111	2 units
H.H. 152	2 units	H.H. 160	3 units
H.H. 153	3 units	H.H. 161	2 units
H.H. 160	3 units	Ed. 195H.H.	2 units
H.H. 161	2 units	Physiol 101	5 units
Ed. 195H.H.	2 units		
Total units required	26 units	Total units required	15 units
		Total units required	19 units

¹ See A.A. Degree requirements of University of California, page 42.

Additional requirements for the Junior High School Credential are given in detail on pages 55-57.

A liberal arts group major which includes Health and Hygiene may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

DESCRIPTION OF COURSES

LOWER DIVISION

1. Personal Hygiene (fall, spring) 2 units

The basic principles of healthful living. Informational personal hygiene with consideration of the physical, mental and social well-being of the individual. Deals with the principles of healthful living and assists students to make a conscious adjustment to their environment.

Two one-hour periods per week.

50. Home Nursing (fall, spring) 2 units

Students completing this course and passing the examination will be granted the Red Cross Home Nursing Certificate.

Two one-hour periods per week.

55. First Aid (fall, spring) 2 units

This course conforms to the standards of the American Red Cross. Lectures, practical demonstrations, and practice periods. Those passing the written tests and practical demonstrations will receive the Standard and Advanced Red Cross First Aid Certificates.

Two one-hour periods per week.

UPPER DIVISION

160. Public Health 3 units

A survey of the field of public health, including disease prevention and control; the social, medical, and economic aspects of sickness and disability, with special emphasis on administrative programs of federal, state, and local health agencies.

Three one-hour periods per week.

161. School Health Program (fall) 2 units

Designed for teachers of health in the public schools. Basic personal, community, and school health problems; content and materials essential in health instruction. Includes techniques of measuring and evaluating health status and health practices.

Two one-hour periods per week.

Related Courses in Other Departments

Anatomy 66 (Human Anatomy)	3 units
Bacteriology 1 (General Bacteriology)	5 units
Biology 103 (Micro-Technique)	2 or 3 units
Education 111 (Child Growth and Development)	2 units
Home Economics 20 (Nutrition and Foods)	2 units
Home Economics 120 (Dietetics)	3 units
Home Economics 150 (Child Care)	2 units
Physical Education 151 (Applied Kinesiology)	3 units
Physical Education 152 (Methods in Corrective Physical Education)	2 units
Physical Education 153 (Physiology of Exercise)	3 units
Physiology 1 (Elementary Physiology)	5 units

THE DIVISION OF LANGUAGE AND LITERATURE

English Language and
Literature
Journalism

Foreign Languages and
Literature

OBJECTIVES

The objectives of the Division of Language and Literature are :

1. To offer courses for all students that will enrich cultural and social backgrounds, provide improved use of communication skills, enrich personalities, and stimulate active participation in world citizenship through a study of the language, literature, and life of the people of this and other lands.
2. To offer courses that will aid in developing a general background in English for those training to become teachers in the elementary and secondary schools of the State.
3. To provide curricula leading to :
 - a. General Secondary Credential with major in English-Speech, enabling the student to teach in the secondary schools of the State. This program involves a year of graduate study.
 - b. Graduate study for advanced degrees in the field of English.
 - c. A cultural education with emphasis upon English.
 - d. Professional work in the field of Journalism.
4. To enable the student to read the French or Spanish languages for recreative, for cultural, and for vocational purposes.
5. To enable the student to pronounce, to understand, and to use the foreign language orally within the limits of class material.
6. To give the student knowledge of the foreign country and its people.
7. To integrate foreign language study with other fields, such as English, Social Science, Music, Art, Drama, etc.
8. To provide courses for :
 - a. A Junior High School major in English.
 - b. Minors in English, Journalism, French, and Spanish.
 - c. A two-year Terminal Curriculum in Journalism.

ENGLISH

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN ENGLISH-SPEECH

LOWER DIVISION

English -----	12 units
(English 1A-1B, 46A-46B)	
Speech -----	6 units
(Speech 1 and 2 or 3)	
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Sciences -----	12 units
(See page 39)	
Orientation II -----	1 unit
Physical Education (including Phys. Educ. 5 or 15) -----	2 units
Psychology 1 -----	3 units
Social Sciences -----	12 units
(Including one year-course and fulfillment of requirement in U. S. History and Constitution. See page 39)	
Electives -----	6 units
(Chosen from Art, Music 3-4, Foreign Language or Philosophy)	
Completion of lower division requirements for a secondary minor. (See list on page 41)	

UPPER DIVISION

English	18 units
English 112 or 115, 136A or 136B, 162, and 9 units from English 154, 155, 157, 160, and 171)	
Speech	6 units
(Speech 155, 156)	
Education	14 units
(Education 110, 111, 115, 124, 153, 195E, 170; see recommended sequence on page 59)	

Completion of upper division requirements for a secondary minor.

Electives to bring total to 120 units, thus completing requirements for the A.B. Degree.

For admission to the graduate year, the student must maintain the following scholarship standards:

Index on all work taken in the upper division.....	1.50
Index on all work taken in the major field.....	1.50
Index on all work taken in Education courses.....	1.00
Index on all work taken in minor field.....	1.00

GRADUATE YEAR

English	6 units
(English 288 and 262)	
Education	10-12 units
(Education 270, 340, and 4 units from 212, 265, and 299)	
Major, minor, or electives.....	6- 8 units
An index of 1.75 is required on all work taken in the graduate year.	
A minimum of 24 units in the graduate year is required. Part of this work may be taken in approved upper division courses.	

REQUIREMENTS FOR THE A.B. DEGREE IN ENGLISH

(LIBERAL ARTS)

LOWER DIVISION

English	12 units
(English 1A-1B, 46A-46B)	
Foreign Languages ¹	10 units
(In not more than two languages. Each year of high school foreign language will be counted in satisfaction of three units of this requirement. Part of requirement may be satisfied by upper division courses)	
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Sciences ¹	12 units
(See page 39)	
Physical Education	2 units
(Including Phys. Educ. 5 or 15)	
Psychology 1	3 units
Social Sciences	12 units
(Including one year-course and fulfillment of requirement in U. S. History and Constitution. See page 39)	
Electives	6 units
(Chosen from Art, Music, Speech, Philosophy)	

UPPER DIVISION

English	24 units
(English 160, 162, and 18 upper division units)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units must be completed.

The candidate must complete a minor chosen from the list of minors on page 41, and must maintain a "C" average in all work taken toward the degree and in all work taken in the major and minor fields.

¹ If the student expects to take graduate work at the University of California, he should consult the requirements in Foreign Language and Natural Sciences as given on page 42.

REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN SPEECH AND ENGLISH

(This curriculum is outlined in detail on page 85)

TWO-YEAR TERMINAL CURRICULUM IN JOURNALISM RECOMMENDED SEQUENCE

Freshman Year		
	Sem. 1	Sem. 2
English 1A-1B (Reading and Comp.)	3	3
B.A. 2A (Typing I)	2	—
HH 1 (Hygiene)	—	2
Science elective	3	3
Pol. Sci. 1A-1B (Introduction to Government)	3	3
History 70 (U. S. History)	2	—
Art 50 (Photography)	—	2
Social Science elective	3	3
Phys. Educ. (Activities)	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$
Sophomore Year		
Journalism 20 (Newswriting)	3	—
Journalism 21 (Reporting)	—	3
Journalism 29 (Press Photography)	—	1
Economics 1A-1B	3	3
B.A. 14A-14B (Accounting)	3	3
English 46A-46B (Survey of Engl. Lit.)	3	3
Science elective	3	3
Phys. Educ. (Activities)	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	16 $\frac{1}{2}$

NOTE: Students with special interests in Journalism which are not included in the suggested two-year curriculum are invited to consult with the Journalism adviser. The scope of the program is limited only by the general college requirements.

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor in Journalism</i>
Lower Division	Eng. 1A-1B ----- 6 units	Journalism 20--- 3 units
Eng. 1A-1B --- 6 units	Recommended:	Journalism 21--- 3 units
Eng. 46A-46B_ 6 units	Eng. 46A-46B.	Journalism
		(U. D.) ----- 6 units
Upper Division	6 units U. D. English.	
12 units U. D. English	Recommended:	
Recommended:	Eng. 115 ----- 3 units	
Eng. 115 --- 3 units	Eng. 136A or	
Eng. 136A or	136B ----- 3 units	
136B ----- 3 units		
Eng. 162 --- 3 units		
One of the		
later period		
courses -- 3 units		
Total units	—	—
required ---24 units	12 units	12 units

Additional requirements for the Junior High School Credential are given in detail on pages 55-57.

Teaching Minors for Candidates for General Secondary Credential

<i>English</i>		<i>Journalism</i>	
Lower Division		English 1A-1B	6 units
Eng. 1A-1B	6 units	Journalism 20	3 units
Eng. 46A-46B	6 units	Journalism 21	3 units
Upper Division		Journalism 122	3 units
Eng. 136A or 136B	3 units	6 units Upper Division	
Eng. 162	3 units	Journalism	6 units
3 units chosen from Eng. 154, 155, 157	3 units		
Total units required	21 units		21 units

DESCRIPTION OF COURSES**LOWER DIVISION****Subject A. English Composition (fall, spring) 3 units**

A study of the fundamentals of English grammar, usage, punctuation, and mechanics, with some practice in writing. Required of those who fail the test in "Subject A." Not applicable toward degree requirement in English.

Three one-hour periods per week.

1A. First-year Reading and Composition (fall, spring) 3 units

Emphasis on expository writing, with supplementary reading.

Prerequisite: The passing of the Subject A test, or a passing grade in the Subject A course.

Three one-hour periods per week.

1B. First-year Reading and Composition 3 units

An introduction to the study of literature with further training in writing.

Prerequisite: English 1A.

5. Creative Writing (See Eng. 105) 3 units**8. Playwriting (fall) 3 units**

See Speech 30.

46A. Survey of English Literature (fall) 3 units

The beginning of English literature and the main aspect of its development down to the Restoration (1660).

Prerequisite: English 1B.

Three one-hour periods per week.

46B. Survey of English Literature (spring) 3 units

The leading movements in the development of English literature from the Restoration (1660).

Three one-hour periods per week.

74A. Masterpieces of World Literature 3 units

Begins with Homer; goes through the Renaissance.

Three one-hour periods per week.

74B. Masterpieces of World Literature 3 units

From the Renaissance.

74A is not prerequisite to 74B.

Three one-hour periods per week.

UPPER DIVISION

English 1A-1B is prerequisite to all upper division courses in English.

- 105. Creative Writing** (fall, spring) **3 units**
 Course emphasizes developmental writing and aims toward effective, purposeful expression in various literary forms.
 Three one-hour periods per week.
- 108. Advanced Playwriting** (See Speech 130) **3 units**
 Suggested as an elective; not a part of an English major or minor.
- 112. Phonetics** (fall) **3 units**
 See Speech 112.
- 115. The English Language** **3 units**
 A study of tendencies that have changed and are changing the language; designed to give some basis for deciding questions of grammar, usage, and pronunciation.
 Three one-hour periods per week.
- 136A. American Literature** **3 units**
 A study of American literature from Colonial times to the middle of the nineteenth century.
 Three one-hour periods per week.
- 136B. American Literature** **3 units**
 American literature from the middle of the nineteenth century to the present. A study and appraisal of authors and their works contributing to the American scene.
- *142A. The Novel** **3 units**
 The English novel from Defoe through Scott. Students will read and study the novel, its origin, its development as a literary form.
 Three one-hour periods per week.
- *142B. The Novel** (fall) **3 units**
 The English novel from Dickens to contemporary writers. This is a continuation of course 142A, though 142A is not a prerequisite to 142B.
 Three one-hour periods per week.
- *153. The Age of Elizabeth** **3 units**
 Prose and poetry, exclusive of the drama.
 Three one-hour periods per week.
- 154. The Age of Swift and Pope** (fall) **3 units**
 A study of the development of English prose and poetry during the Augustan age.
 Three one-hour periods per week.
- 155. The Romantic Period** (spring) **3 units**
 English literature from 1784 to 1837: Cowper, Blake, Burns, Wordsworth, Coleridge, Lamb, Byron, Shelley, Keats, De Quincey.
 Three one-hour periods per week.
- *157. The Victorian Period** (fall) **3 units**
 English literature from 1837 to 1900: Carlyle, Macaulay, Newman, Tennyson, Browning, Fitzgerald, Ruskin, Arnold, Rossetti, Pater, Stevenson, Swinburne, Wilde, Thompson, Hardy, Kipling, Housman.
 Three one-hour periods per week.
- 160. Chaucer** (fall) **3 units**
- *162. Shakespeare** (spring) **3 units**
- *171. Survey of the Drama** (See Speech 171) **3 units**

* Not given 1948-49.

178. Children's Literature (spring)**3 units**

A survey course intended to give an understanding and appreciation of the best literature for children of all ages. Books by notable contemporary authors and artists are read and discussed as well as traditional and classical literature. Attention is given to reading guidance and the stimulation of wider use of books for study and recreation. Required for candidates for the Kindergarten-Primary and the General Elementary Credentials. Not applicable toward an English major or minor.

Three one-hour periods per week.

184. Twentieth Century Literature (spring)*3 units**

A study of current literary trends, and of leading modern writers in England and America.

Three one-hour periods per week.

GRADUATE DIVISION**262. Shakespeare****3 units**

An introduction to the bibliography; history of the text; use of sources by Shakespeare; methods of critical study.

Prerequisite: Graduate standing and English 162.

288. Principles and Practice of Literary Criticism**3 units**

The principles and practice of literary criticism from Plato and Aristotle to the present. The aim will be to use the heritage of the past criticism for the development of the student's own powers of evaluation, and for the understanding of the materials and techniques of critical judgment and aesthetic response which the prospective teacher may need to foster literary appreciation in his pupils.

* Not given 1948-49.

JOURNALISM

Note: Ability to type is necessary in all journalism courses.
English 1A-1B is prerequisite to all courses in journalism.

LOWER DIVISION

20. Newswriting 3 units

A study of what constitutes constructive news, of the sources of news, and of the type of writing used in news stories.

Three one-hour periods per week.

21. Reporting 3 units

The writing of news stories for the college paper and for the college news bureau.

Prerequisite: Journalism 20, or consent of instructor.

Three one-hour periods per week.

29. Press Photography 1 unit

A study of the qualities in photography which are important to reproduction by the various methods of printing.

One one-hour period per week.

Prerequisite: Art 50 and consent of the instructor.

UPPER DIVISION

122. Copyreading 3 units

The methods of editing newspaper copy and the writing of headlines.

Prerequisite: Journalism 20.

Three one-hour periods per week.

124. Feature Writing 3 units

A study of the various types of feature articles and the writing of features by the student.

Prerequisite: Journalism 20.

Three one-hour periods per week.

125. Retail Advertising 3 units

The planning and execution of advertising for retailers, the principles of advertising layout, the newspaper and other media, and the management of advertising accounts.

Prerequisite: Journalism 20.

Three one-hour periods per week.

*126. Editorial Writing 3 units

Discussion of current news and the writing of editorials on appropriate items.

Prerequisite: Journalism 20.

Three one-hour periods per week.

MODERN LANGUAGES

MINOR REQUIREMENTS

	<i>Minor in French*</i>	<i>Minor in Spanish*</i>
Lower Division	French 1A-1B -----6 units (Two years of high school French may be substituted for 1A-1B) French 2A -----3 units French 2B -----3 units French 8A -----1 unit	Spanish 1A-1B -----6 units (Two years of high school Spanish may be substituted for 1A-1B) Spanish 2A -----3 units Spanish 2B -----3 units
Upper Division	French 105A-105B ----6 units	Spanish 105A-105B ---6 units
Total units required	13-19 units	12-18 units

DESCRIPTION OF COURSES

FOREIGN LANGUAGE

11A. Foreign Language Pronunciation (fall) 2 units

Pronunciation of French, German, Italian and Spanish. Designed primarily for students of music, radio, and speech. Elective credit only.

Two one-hour periods per week.

FRENCH

LOWER DIVISION

1A. Elementary French (fall) 3 units

Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.

Four one-hour periods per week.

1B. Elementary French (spring) 3 units

Continuation of French 1A.

Prerequisite: French 1A or one year of high school French.

Four one-hour periods per week.

2A. Intermediate French (fall) 3 units

Reading of modern short stories, novels, plays, and works descriptive of French civilization. Review of essentials of grammar, conversation.

Prerequisite: French 1B or two years of high school French.

Three one-hour periods per week.

2B. Intermediate French (spring) 3 units

Continuation of French 2A.

Prerequisite: French 2A or equivalent.

Three one-hour periods per week.

5A-5B. Advanced Reading (year) 3-3 units

Introduction to French literature.

Prerequisite: French 2B or equivalent.

Three one-hour periods per week.

8A. French Pronunciation (spring) 1 unit

Prerequisite: French 1A or one year of high school French.

One one-hour period per week.

* Students interested in a General Secondary minor in French or Spanish should consult the department.

UPPER DIVISION

105A-105B. Survey of French Literature (year)

3-3 units

A brief survey of French literature from its beginning to the present time. Extensive reading of works of representative authors of all periods.

Prerequisite: French 2B or four years of high school French.

Three one-hour periods per week.

SPANISH

LOWER DIVISION

1A. Elementary Spanish (fall)

3 units

Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.

Four one-hour periods per week.

1B. Elementary Spanish (spring)

3 units

Continuation of Spanish 1A.

Prerequisite: Spanish 1A or one year of high school Spanish.

Four one-hour periods per week.

2A. Intermediate Spanish (fall)

3 units

Reading of modern short stories, novels, plays, and works descriptive of Latin-American civilization. Review of essentials of grammar, conversation.

Prerequisite: Spanish 1B or two years of high school Spanish.

Three one-hour periods per week.

2B. Intermediate Spanish (spring)

3 units

Continuation of Spanish 2A.

Prerequisite: Spanish 2A or equivalent.

Three one-hour periods per week.

5A.-5B. Advanced Reading (year)

3-3 units

Introduction to Spanish Literature.

Prerequisite: Spanish 2B or equivalent.

Three one-hour periods per week.

UPPER DIVISION

105A-105B. Survey of Spanish Literature (year)

3-3 units

A brief survey of Spanish literature from its beginning to the present time. Extensive reading of representative authors of Spain and Latin America.

Prerequisite: Spanish 2B or four years of high school Spanish.

Three one-hour periods per week.

DIVISION OF NATURAL SCIENCES

Biological Sciences
Physical Sciences

Mathematics
Engineering

OBJECTIVES

The objectives of the Division of Natural Sciences are to provide :

1. A general background in natural sciences for those training to become teachers in the elementary and secondary schools of the State.
2. Curricula leading to :
 - a. General Secondary Credential with major in Life Science and General Science, enabling the student to teach in the secondary schools of the State ; this program involves a year of graduate work.
 - b. The A.B. Degree in Biological Sciences, with differentiated majors in Biology, Botany, and Zoology, for :
 - (1) Students interested in research or graduate study in these fields.
 - (2) Candidates for state or federal civil service positions in the Biological Sciences.
 - c. The A.B. Degree in Pre-Medical Sciences.
 - d. The A.B. Degree in Wildlife Management.
3. Lower division preparatory or pre-professional curricula for students of agriculture, animal and plant science, dentistry, forestry, laboratory technology, nursing, optometry, pharmacy, veterinary science.
4. Lower division curricula in mathematics and physical science for engineering
5. Minors in Biology, Botany, Zoology, Chemistry, Wildlife Management, and Mathematics, designed to furnish a cultural background in the natural sciences and an appreciation of the scientific philosophy.

BIOLOGICAL SCIENCES

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN LIFE AND GENERAL SCIENCES

LOWER DIVISION

Science -----	22 units
(Botany 1A-1B, Zoology 1A-1B, Phys. 2A-2B)	
Art 50 (Recommended) -----	(2) units
English 1A-1B -----	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Orientation II -----	1 unit
Physical Education -----	2 units
(Including 5 or 15)	
Psychology 1 -----	3 units
Social Sciences -----	12 units
(Including one year-course and fulfillment of requirement in U. S. History and Constitution. See page 39.)	
Electives -----	6 units
(Chosen from Art, Foreign Language, Music, Philosophy, Speech, English 46A-46B or 74A-74B)	
Completion of lower division requirements for a secondary minor. (See list on page 41.)	

UPPER DIVISION

Science	24 units
(Chosen from : Biology 101, 103, 114, 119 Botany 107, 110A-110B Physiology 101 Zoology 104, 112, 113, 160, 165 Chemistry 105, 108, 109)	

Education	14 units
(Education 110, 111, 115, 124, 153, 195S, 170 ; see recommended sequence on page 59)	

Completion of upper division requirements for a secondary minor.

Electives to bring total to 120 units, thus completing requirements for the A.B. Degree.

For admission to the graduate year, the student must maintain the following scholarship standards:

Index on all work taken in the upper division.....	1.50
Index on all work taken in the major field.....	1.50
Index on all work taken in the minor field.....	1.00
Index on all work taken in Education courses.....	1.00

GRADUATE YEAR

Science	6 units
(Biology 201A-201B or Zoology 212 and Botany 212)	

Education	10-12 units
(Education 270, 340, and 4 units from 212, 265, and 299)	

Major, minor, or electives.....	6- 8 units
---------------------------------	------------

An index of 1.75 is required on all work taken in the graduate year.

A minimum of 24 units in the graduate year is required. Part of this work may be taken in approved upper division courses.

LIBERAL ARTS DEGREE CURRICULA IN THE LIFE SCIENCE FIELD

BASIC REQUIREMENTS COMMON TO ALL

LOWER DIVISION

English 1A-1B	6 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in High School)	
Physical Education	2 units
(Including 5 or 15)	
Psychology 1	3 units
Social Sciences	12 units
(Including one year-course and fulfillment of requirement in U. S. History and Constitution. See page 39)	

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required.

The candidate must complete a minor, chosen from the list of minors on page 41, and must maintain a "C" average in all work taken toward the degree, and in all work taken in the major and minor.

The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to requirements in foreign language.

SPECIFIC REQUIREMENTS FOR DIFFERENTIATED MAJORS**BIOLOGICAL SCIENCES**

(For other requirements, see basic requirements given above.)

LOWER DIVISION

Biological Sciences -----	12 units
(Biology 10A-10B, Botany 4, Zoology 4)	
Physical Sciences 5A-5B -----	6 units
Electives -----	6 units
(Chosen from Art, Music, Speech, Foreign Language, Philosophy, or English 46A-46B or 74A-74B)	

UPPER DIVISION

Biological Sciences -----	24 units
(Not more than 15 units should be taken in either Zoology or Botany)	

BOTANY

(For other requirements, see page 113)

LOWER DIVISION

Botany 1A-1B -----	8 units
Physical Sciences -----	14 units
(Chemistry 1A, 8, Physics 2A-2B)	
Electives -----	6 units
(Chosen from Art, Music, Speech, Foreign Language, Philosophy, or English 46A-46B or 74A-74B)	

UPPER DIVISION

Biological Sciences -----	24 units
(Chosen from Biology 101, 103, 114, 199; Botany 101A-101B, 107, 110A-110B, 114)	

ZOOLOGY

(For other requirements, see page 113)

LOWER DIVISION

Zoology 1A-1B -----	8 units
Physical Sciences -----	14 units
(Chemistry 1A, 8, Physics 2A-2B)	
Electives -----	6 units
(Chosen from Art, Music, Speech, Foreign Language, Philosophy, or English 46A-46B or 74A-74B)	

UPPER DIVISION

Biological Sciences -----	24 units
(Chosen from Biology 103, 114; Physiology 101; Zoology 101, 104, 112, 113, 114, 160, 165, 199)	

PRE-MEDICAL SCIENCES

Minimum requirements for admission to Class A medical colleges have been set up by the Council on Medical Education of the American Medical Association. Most medical schools, however, set up admission standards in excess of these minimums. For pre-medical students, a broad general education is prescribed, with emphasis on biological and physical sciences. This is probably best done by completing the requirements for a bachelor's degree before entering medical school. In some instances,

students will be accepted by medical schools after the completion of 90 semester units of college work which includes the required courses.

The following course of study meets the standards established by the American Medical Association as well as the requirements for graduation from this College:

LOWER DIVISION

(For other requirements, see page 114)

Natural Sciences	26 units
(Zoology 1A-1B, Chemistry 1A-1B, Physics 2A-2B, 3A-3B)	
Foreign Languages ¹	10 units
(In not more than two languages. Two years of the same foreign language in high school will be counted in satisfaction of six units of this requirement. Part of this requirement may be satisfied by upper division courses)	
Electives	6 units
(Chosen from Art, Music, Speech, Philosophy, or English 46A-46B or 74A-74B)	

UPPER DIVISION

Natural Sciences	24 units
(Including Biology 103, 114; Zoology 114, 160; Chemistry 105, 108-109)	

Note: Since acceptance by the medical school is conditioned largely upon scholarship, particularly in the required subjects, pre-medical students are urged to bear in mind the importance of distinctly high scholarship in the undergraduate work.

WILDLIFE MANAGEMENT

LOWER DIVISION

Wildlife Management	9 units
(WM 10, 15, 60)	
Agriculture 1	3 units
English 1A-1B	6 units
Home Economics 20	2 units
Mathematics (Elem. Algebra and Plane Geometry if not taken in high school)	
Natural Science	26 units
(Botany 1A, 4; Chemistry 1A, Zoology 1A-1B, 35, 65)	
Physical Education	2 units
(Including Phys. Educ. 5 or 15)	
Psychology 1	3 units
Social Science	13 units
(Economics 1A-1B, 40; History 70,* Political Science 51.* See page 39)	
Electives	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, English 46A-46B, or 74A-74B)	

UPPER DIVISION

Wildlife Management	15 units
Agriculture 104	3 units
Biology 114	3 units
Botany 110A-110B	6 units
Physiology 101	5 units
Zoology 170	3 units

Electives to bring total units up to 120. Recommended electives are: Trigonometry, Typing, Anatomy, Surveying, News Writing, Plant Ecology, Embryology, Soil Science, and Speech.

¹ The student should check the institutional requirements of the medical school he expects to enter. If he expects to transfer to the University of California, he should follow the requirements for the Associate in Arts degree (as given on page 42), and must also include 8 units in a modern foreign language as part of the 16 units required.

* Subject requirement may be satisfied by examination; no unit credit.

A minimum of 40 upper division units must be completed.

The program as outlined above includes a minor in Botany. No additional minor is required.

The student must maintain a "C" average in all work taken toward the degree and in all work taken in the major and minor fields.

REQUIREMENTS FOR

<i>Junior High School Major in Biological Sciences</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	
Biol. 10A-10B ----- 6 units	Biol. 10A-10B ----- 6 units
Bot. 4 ----- 3 units	Chem. 1A ----- 5 units
Zool. 4 ----- 3 units	Zoology 4 ----- 3 units
Upper Division	Botany 4 ----- 3 units
12 units of Upper Division Biol- ogy, Botany, or Zoology ----- 12 units	8-9 units from : Botany 110A-110B, 107, or Zoology 104, 113, 165 Physiology 101 (Not more than 6 units in one field) ----- 8-9 units
Total units required ----- 24 units	Total units required ----- 25-26 units
Additional requirements for the Junior High School Credential are given in de- tail on pages 55-57.	

<i>Biology Minor</i>	<i>Botany Minor</i>
Lower Division	
Biology 10A-10B ----- 6 units	Botany 1A-1B ----- 8 units or Biology 10A-10B ----- 6 units and Botany 4 ----- 3 units
Upper Division	
6 units chosen from—	6 units chosen from—
Biology 101 ----- 3 units	Any U. D. Botany course or Biology 114 ----- 3 units
Biology 114 ----- 3 units	
Botany 114 ----- 3 units	
Botany 107 ----- 3 units	
Botany 110A-110B ----- 6 units	
Zoology 165 ----- 3 units	
Total units required ----- 12 units	Total units required ----- 14-15 units

The Biology minor is recommended for credential candidates but is not advised for students planning to do graduate work at a university.

<i>Zoology Minor</i>	<i>Chemistry Minor</i>	<i>Wildlife Management Minor</i>
Lower Division Zoology 1A-1B 8 units or Biology 10A-10B --- 6 units and Zoology 4_ 3 units	Chemistry 1A-1B -----10 units	Six units, including WM 2
Upper Division 6 units chosen from— Any U. D. Zoology Biology 101 Biology 114_ 6 units	Chemistry 108--- 3 units Chemistry 105 or Chemistry 109--- 3 units	Six units, including WM 120 Consult department for choice of courses
Total units required_ 14-15 units	Total units required -----16 units	Total units required -----12 units

DESCRIPTION OF COURSES

BIOLOGICAL SCIENCES

Agriculture

LOWER DIVISION

1. Agronomy 3 units

Principles of the culture and distribution of field crops. Seed selection, maintenance of soil fertility, preparation of the seed bed. Important factors in the development of typical cereal and forage crops.

Three one-hour periods per week.

UPPER DIVISION

100. Elementary Soil Science (spring) 3 units

Introduction to the development and characteristics of soils with emphasis on soil conservation.

Three one-hour periods per week.

104. Range and Farm Livestock Management (spring) 3 units

General principles and practices underlying the management of range and farm livestock.

Three one-hour periods per week.

Prerequisite: Agriculture 1.

Anthropology

1A. Physical Anthropology (spring) 3 units

An account of the origin and development of human races, the nature of man, and his place in the biological world.

Three one-hour periods per week.

Bacteriology

1. General Bacteriology (fall) 5 units

Morphology, physiology, and classifications of bacteria, yeasts and molds. Laboratory training in micro-technique, preparation of culture media, sterilization, inoculation, identification. Bacteriology of air, water, soil, and dairy products. The rudiments of infection and bacterial diseases.

Three one-hour lectures and two three-hour laboratory periods per week.

Biology**LOWER DIVISION****10A-10B. General Biology (year)****3-3 units**

An outline of the main facts and principles of plant and animal life. Lectures and demonstrations on the fundamental properties of living things; their functions, structures, classifications, life histories, and relation to human life.

Not to be taken concurrently with, or subsequently to either Zoology 1A-1B or Botany 1A-1B.

Two one-hour lecture periods and one three-hour laboratory period per week.

UPPER DIVISION

Prerequisite to all upper division Biology courses is either Biology 10A-10B, Botany 1A-1B, or Zoology 1A-1B:

101. Marine Biology (summer session)**3 units**

A study of the habits, classification, development, and adaptations of marine life, with particular reference to conditions of the Humboldt coast.

Two one-hour lectures and one three-hour laboratory period or field trip per week.

103. Micro-Technique (fall)**2 or 3 units**

Preparation of plant and animal tissue for microscopical study, including killing, fixing, staining, and sectioning methods.

Two or three three-hour periods per week.

114. Heredity and Evolution (fall)**3 units**

The facts of heredity and Mendel's laws with the application of these laws to plants and animals, including man, are taken up through lectures and assigned reading. Study is made of the various theories of evolution.

Three one-hour periods per week.

190. Elementary School Science (fall)**2 units**

(See Education 190S)

Objectives, methods, and content of the elementary school science program.

Two one-hour periods per week.

199. Special Problems (fall, spring)**1-3 units**

Limited to majors in Biological Sciences. Student and problem to be approved by the department. Student carries on independent study and investigation in consultation with instructor assigned to him.

Botany

NOTE.—Arcata is an excellent location for all kinds of botanical study. Ocean reefs are located within four miles, a heavy coniferous forest adjoins the campus on the east, and within forty miles horizontal travel one may reach all altitude ranges from sea level to five thousand feet.

Botany courses are fundamental courses to all students in the plant sciences and are basic courses for such occupations as the following: Plant Pathologist, Bacteriologist, Forester, Forest Pathologist, Farm Adviser, High School Science Teacher, Agriculturist, Nurseryman, Landscape Gardener or Architect, Florist, Seedsman, Horticulturist, etc.

The facilities of the department include well equipped laboratories, an herbarium of local flora, and a greenhouse.

LOWER DIVISION**1A-1B. General Botany (year)****4-4 units**

First semester: The fundamentals of the morphology and physiology of flowers, fruit, seeds, seedlings, roots, stems, and leaves.

Second semester: Lower orders of plants, introduction to the taxonomy of the flowering plants.

Field trips will be made to points near the College, and a large part of the material used in the laboratory will be collected by the students.

Two one-hour lectures and two three-hour laboratory periods per week.

4. Classification of Flowering Plants (spring or summer session) **3 units**

Lectures on the principles of classification; laboratory exercises on plant structure; practice in determinations by means of a manual.

Two one-hour lectures and one three-hour laboratory periods per week.

UPPER DIVISION

Prerequisite to all upper division courses in Botany is Botany 1A-1B, or Biology 10A-10B and Botany 4.

101A-101B. Mycology (year) **3-3 units**

First semester: Morphology, taxonomy, and parasitism of representative genera of fungi. Phycomycetes and Ascomycetes. Field work on conspicuous Basidiomycetes not likely to be found in the spring.

Second semester: Basidiomycetes and fungi imperfecti.

One lecture and two three-hour laboratory periods per week.

107. Plant Ecology (fall) **3 units**

A general survey of plants and plant associations in relation to environment. Particular attention will be given to the study of successional and habitat factors as determining the local distribution of native plants as well as an adaptation of native plants to this area.

Three one-hour periods per week.

110A-110B. Plant Taxonomy (year) **3-3 units**

First semester: A study of the forest trees and shrubs, with field identification, and a critical study of the characters and habitats of gymnosperms.

Second semester: A study of representative orders of flowering plants; their habits, growth, structure, classification, and geographical distribution.

One one-hour lecture and two three-hour laboratory periods per week.

Prerequisite: Botany 4.

114. Advanced Ornamental Plants (spring) **3 units**

Study of the more common ornamental trees and shrubs, with principles of landscaping. Greenhouse work in various methods of propagation, potting, culture, etc.

One lecture and two three-hour laboratory periods per week.

Paleontology

1. General Paleontology (spring) **3 units**

The history and principles of the development of life on the earth. History of the development of man and his relation to vertebrate life.

Three one-hour lecture periods per week.

Physiology and Anatomy

LOWER DIVISION

1. Elementary Physiology (spring) **5 units**

A general introductory course on human physiology. (May be taken as a lecture course only, for three units.)

Three one-hour lectures and two three-hour laboratory periods per week.

66. Human Anatomy (fall) **3 units**

Demonstration and laboratory study of human dissections, models, and prepared microscopic slides. Designed particularly for nurses and Physical Education majors.

Prerequisite: Zoology 1A.

One one-hour lecture and two three-hour laboratory periods per week.

UPPER DIVISION

101. Human Physiology (spring) **5 units**

A more advanced course for upper division students.

Wildlife Management

LOWER DIVISION

2. Wildlife Conservation (fall) 3 units

An introductory course designed to orient and acquaint the student with the broad aspects of natural resource conservation, with stress on the interaction of the many agencies concerned. A survey of modern methods applied to conservation, and the history of the wildlife management movement. This course is also organized to provide prospective teachers with the necessary tools for teaching the fundamentals of good conservation habits.

Three one-hour periods per week.

5. Wildlife Techniques (spring) 3 units

A practical course designed to teach wildlife students the diversified duties required of them which are not included in usual classwork. Fly-tying, preparation of museum specimens, knot-tying, ballistics, evidence collection, dressing and preserving wild meat, breeds of dogs, fishing and trapping techniques, state and federal game laws.

One lecture and two two-hour laboratory periods per week.

8. Game Law Enforcement (spring) 2 units

To acquaint the student with the basic concepts of law enforcement, with special emphasis on fish and game law enforcement work. Most of the course is conducted by members of the Bureau of Patrol of the California Division of Fish and Game as a cooperative program to improve public understanding of wildlife conservation.

One two-hour lecture and laboratory period per week.

20. Principles of Wildlife Management (fall) 3 units

An intensive study of wildlife management practices. The theory and application of scientific research as it applies to wild animals. Measurement of game and fish populations and productivity. Economic aspects of game populations.

Three one-hour periods per week.

Prerequisite: WM 2.

UPPER DIVISION

120. Principles of Wildlife Management (fall) 3 units

See WM. 20.

Students *minoring* in Wildlife may receive upper division credit for this course. Major students take it in the lower division.

Prerequisite: WM. 2 and upper division status.

131. Management of Game Fish (spring) 3 units

The inland fishes of North America with special reference to trout, salmon, and spiny-rayed fishes. Stream and lake surveys, pollution, farm fish ponds, and hatchery methods. Each student will have the personal responsibility of rearing several thousand trout or salmon in the college hatchery.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: WM. 20.

132. Commercial Fisheries (fall) 3 units

The marine fisheries. The biology and management of important fish and shellfish. Harvesting methods by trips at sea on commercial vessels.

Three one-hour periods per week. Field trips by arrangement.

Prerequisite: WM. 20.

150. Management of Big-game (fall) 3 units

Species of big-game mammals, habits, distribution, management, values, laws. Three-day field trip to Siskiyou mountains, Tule Lake, Shasta Dam, Yountville game farm.

Two one-hour lectures; one three-hour laboratory period per week.

Prerequisite: Zoology 35 and WM. 20.

- 152. Management of Furbearers (fall) 3 units**
 Species of furbearers; their life histories and management. Emphasis on wild species with field trips to local fur farms.
 Two one-hour lectures, one three-hour laboratory period per week.
 Prerequisite: WM. 20 and Zool. 35.

- 171. Management of Game Birds (spring) 3 units**
 Intensive study of upland game birds and waterfowl, their life histories and management in the United States. Liberation, population estimates and rearing. Each student will have a personal responsibility in rearing about 800 pheasants a season in the college rearing pens.
 Two one-hour lectures, one three-hour laboratory period per week.
 Prerequisite: Zoology 65 and WM. 20.

Zoology

LOWER DIVISION

- 1A-1B. General Zoology (year) 4-4 units**
 A year course dealing with principles of animal biology together with a review of representative animal forms.
 Two one-hour lectures and two three-hour laboratory periods per week.

- 4. Animal Classification (fall or summer session) 3 units**
 Elementary classification and natural history of the common vertebrates and invertebrates; life histories and methods of conservation. Emphasis is on the animal life of the Humboldt Bay region. Designed for teaching credential candidates who do not elect Zoology 1A.
 Two one-hour lectures and one three-hour laboratory period per week.

- 35. Mammalogy 3 units**
 Study of the classification, anatomy, distribution, and life histories of mammals.
 Two one-hour lectures and one three-hour laboratory period per week.

UPPER DIVISION

Prerequisite to all upper division courses is Zoology 1A-1B, or Biology 10A-10B and Zoology 4.

- 104. Field Zoology (fall or summer session) 3 units**
 Collection, identification, and preservation of common invertebrates and vertebrates of Humboldt Bay region. Discussion of ecological relationships. Each student works on an individual problem.
 Two one-hour lectures and one three-hour laboratory period per week.

- 112. Invertebrate Zoology (fall) 3 units**
 A study of animals without backbones, with special reference to the natural history and classification of the animals of the seashore.
 Two one-hour lectures and one three-hour laboratory period per week.

- 113. Natural History of Vertebrates (spring) 3 units**
 Natural history of the birds, mammals, reptiles, amphibians, and fishes. Identification of species, study of habitat, preferences, behavior, distribution, and classification.
 Two one-hour lectures and one three-hour laboratory period per week.

- 114. Comparative Anatomy of Vertebrates 3 units**
 Two one-hour lectures and one three-hour laboratory period per week.

- 160. Embryology (spring) 3 units**
 The maturation of egg and sperm; fertilization; and the early development of the amphibian, chick, and mammal.
 One one-hour lecture and two three-hour laboratory and demonstration periods per week.

165. Ornithology (spring or summer session) 3 units

A study of birds, which includes classification, life histories, migration, habits, and special modifications. Identification of birds in field and laboratory.

Two one-hour lectures and one three-hour laboratory period per week.

170. Entomology (spring) 3 units

The classification, life histories, distribution, and control of insects, with special application to agriculture and game management.

Two lectures and one three-hour laboratory period.

199. Special Problems 1-3 units

Individual work in zoology or wildlife management for upper division students who show special aptitude. Conference, reading, and research.

GRADUATE DIVISION**Biology 201A-201B. Advanced Field Biology 3-3 units**

Original study on special topics in the field and laboratory. Research on life histories, distributional problems, and classification. (Special attention paid to the life of the area between Mad River and the Trinity River.)

Botany 212. Marine Algae 3 units

Taxonomy, life histories, and relationships of the marine algae of the Pacific Coast.

Zoology 212. Advanced Marine Biology 3 units

An advanced course dealing with problems in marine ecology, classification, and life histories.

PHYSICAL SCIENCES**5A-5B. Fundamentals of the Physical Sciences (year) 3-3 units**

A general survey of the physical sciences designed primarily for credential candidates, but open to others who desire six units of lower division credit in physical science.

Three one-hour lectures or demonstration periods per week.

Chemistry**LOWER DIVISION****1A-1B. General Chemistry (year) 5-5 units**

The fundamental concepts of chemistry, with emphasis on the relation of chemical behavior to atomic structure.

Prerequisites: High school chemistry or Physics, and at least two years of high school mathematics.

Three one-hour lecture and two three-hour laboratory periods per week.

UPPER DIVISION***102. Biochemistry 3 units**

Application of chemistry to biological processes; chemistry of the tissues, the digestive processes, the blood, metabolism, and nutrition.

Prerequisite: Chemistry 108.

Three one-hour periods per week.

105. Quantitative Analysis (summer session) 3 units

Principles and methods of quantitative analysis. Study of methods used in industrial, agricultural and medical work.

Prerequisite: Chemistry 1B with grade of "C" or higher.

* Not given 1948-49.

108. Organic Chemistry Lecturers (spring and summer session) **3 units**
 A survey of the carbon compounds.
 Prerequisite: Chemistry 1A or Chemistry 2.
 Three one-hour lecture periods per week.

109. Organic Chemistry Laboratory (summer session) **3 units**
 Study of the carbon compounds in the laboratory. Taken concurrently with or following Chemistry 108.
 Three three-hour laboratory periods per week.

Geology

1A. General Geology (fall) **3 units**
 A survey of the nature and structure of the material composing the earth and of the various processes which have shaped or are still shaping the earth.
 Three one-hour periods per week and field trips.

Physics

2A-2B. General Physics Lectures (year) **3-3 units**
 A general survey of physics for non-engineering students. Less emphasis is placed on the quantitative aspect of the subject and the mathematical treatment is minimized.
 Three one-hour lectures, discussion, and demonstration periods per week.

3A-3B. General Physics Laboratory (year) **1-1 unit**
 Experimental work in mechanics, properties of matter, heat, sound, light, magnetism, and electricity. To accompany Physics 2A-2B.
 One three-hour laboratory period per week.

4A. General Physics (spring) **4 units**
 Mechanics and properties of matter.
 Three lectures and one three-hour laboratory period per week.

4B. General Physics (spring) **4 units**
 Magnetism, electricity, and modern physics.
 Prerequisite: Physics 4A.
 Three lectures and one three-hour laboratory period per week.

4C. General Physics (fall) **4 units**
 Wave motion, heat, sound, and light.
 Prerequisite: Physics 4B.
 Three lectures and one three-hour laboratory period per week.

15. Elementary Physics of Sound and Color (fall) **3 units**
 Science of sound, musical instruments, and acoustics, theory of color. For art and music majors.
 Three one-hour periods per week.

30. Elementary Meteorology (fall or summer session) **3 units**
 Absorption and distribution of solar energy; structure and dynamics of the atmosphere; and methods of recording and predicting the weather. Designed especially for students in aeronautics.

51. Elementary Electronics (spring) **2 or 3 units**
 Non-radio applications of electronic tubes; theory and operation.
 One lecture and two three-hour laboratory periods per week.

Engineering

1A-1B. Plane Surveying (year) **3-3 units**
 Principles, field practice, calculation, and mapping.
 Prerequisite: Plane trigonometry and Industrial Education 7A or its equivalent.
 Two one-hour lecture and one three-hour laboratory periods per week.

8. Materials of Engineering Construction **2 units**
 Structural properties and adaptability of various materials.
 Prerequisite: Sophomore standing in Engineering.

22. Engineering Drawing (fall)**2 units**

Fundamentals of engineering drawing. Covers orthographic projection, geometrical construction, pictorial drawing and sketching, sectioning, fasteners, and simple working drawings.

Prerequisite: Ind. Educ. 7A (or a year of high school mechanical drawing) and Mathematics C.

Six hours per week, lecture and drafting.

23. Descriptive Geometry (spring)**2 units**

Principles of descriptive geometry and the solution of three-dimensional problems. Applications in various branches of engineering.

Prerequisite: Engineering 22, Math 3A.

Two one-hour lectures and two two-hour drafting periods per week.

24. Advanced Engineering Drawing (fall)**2 units**

Freehand sketching in orthographic and pictorial projections; working drawings; structural detailing; electrical and piping layouts; and introduction to graphic integration and differentiation.

Prerequisite: Engineering 23.

Six hours per week, lecture and drafting.

35. Engineering Statics (spring)**3 units**

Forces and force systems, equilibrium conditions, trusses and frames, friction, first and second moments of areas, moments of inertia of masses.

Prerequisite: Physics 4A and Mathematics 4A.

Three one-hour periods per week.

40. Engineering Metallurgy (fall)**3 units**

Structure of metals and alloys. Properties of metals and alloys as related to their structure and composition.

Prerequisite: Physics 4A.

Three one-hour periods per week.

41. Manufacturing Processes (fall)**4 units**

Nonmetallic materials used in manufacturing and their processing, plastics, and wood products; casting and forming processes. Use of precision gauges and standard machine tools. Welding. Decorative and protective coatings.

Prerequisite: Engineering 23 and 40.

Three class hours and one three-hour period per week.

MATHEMATICS

MINOR REQUIREMENTS

Minor in Mathematics

Lower Division	
Mathematics 3A-3B -----	6 units
Upper Division	
Mathematics 104A-104B ----	6 units
Total units required -----	12 units

Minor for Candidates for General Secondary Credential

Lower Division	
Mathematics 3A-3B -----	6 units
Upper Division	
Mathematics 104A-104B ----	6 units
Mathematics 101A-101B ----	6 units
Total units required -----	18 units

DESCRIPTION OF COURSES

LOWER DIVISION

If the student has not had Elementary Algebra and Plane Geometry in high school, it is necessary that he pass courses in these subjects if he is a candidate for the A.B. Degree. Subcollegiate, noncredit courses in Mathematics A (Elementary Algebra), and Mathematics B (Plane Geometry) will be offered whenever there is sufficient demand.

C. Trigonometry (fall) 3 units

Plane trigonometry and spherical right triangles.

Prerequisite: Plane geometry and one and one-half years of high school algebra or Mathematics D.

Three one-hour periods per week.

D. Intermediate Algebra (fall) 3 units

Quadratic equations; exponents and radicals; theory of equations; elementary determinants; progressions; and the binomial theorem.

Prerequisite: One year of high school algebra or general mathematics.

Three one-hour periods per week.

†E. Solid Geometry (spring) 2 units

Prerequisite: Elementary algebra and plane geometry.

Two one-hour periods per week.

1. College Algebra (spring) 3 units

Theory of equations; determinants; equations of third and fourth degrees.

Prerequisite: Mathematics 3A.

Three one-hour periods per week.

2. Mathematics of Finance (spring) 3 units

Theories of interest and annuities applied to amortization, valuation, investment, depreciation, and insurance.

Prerequisite: Two years of high school algebra or Mathematics D.

Three one-hour periods per week.

3A. Analytic Geometry and Calculus (fall) 3 units

Elements of analytic geometry and differential calculus. Also a survey of the principles of integral calculus, with applications to mechanics.

Prerequisite: Mathematics C.

Three one-hour periods per week.

† Given if sufficient demand.

3B. Analytic Geometry and Calculus (spring)**3 units**

A continuation of differential and integral calculus unified with analytic geometry. This course also includes an introduction to the calculus of vectors, and polar coordinates.

Prerequisite: Mathematics 3A.

Three one-hour periods per week.

UPPER DIVISION**101A. Elementary Mathematics for Advanced Students (fall)****3 units**

Selected topics in algebra and geometry with particular emphasis upon historical development. This course is designed for students who are preparing to teach mathematics in secondary schools.

Prerequisite: Mathematics 104A-104B, 1.

Three one-hour periods per week.

101B. Elementary Mathematics for Advanced Students (spring)**3 units**

This course is a continuation of course 101A.

Prerequisite: Mathematics 104A-104B, 1. 101A is not prerequisite to 101B.

Three one-hour periods per week.

104A-104B. Integral Calculus and Solid Analytics (year)**3-3 units**

First semester continues development of integration and series.

Second semester continues partial differentiation, quadric surfaces and multiple integration.

Prerequisite: Mathematics 3A-3B.

Three one-hour periods per week.

110A-110B. Advanced Engineering Mathematics (year)**2-2 units**

This course is primarily for engineering students who expect to get a degree in engineering. A more intensive study of integration and physical applications, conjugate functions, hyperbolic functions, Fourier series, differential equations.

Prerequisite: Mathematics 4A-4B.

Two one-hour periods per week.

DIVISION OF SOCIAL SCIENCES

Business	Philosophy
Economics	Political Science
Geography	Psychology
History	Sociology

OBJECTIVES

The objectives of the Division of Social Sciences are to make a contribution to the general education of all students ; more specifically, to provide :

1. Courses intended to develop understanding and appreciation of the interrelated political, social and economic institutions and problems of the day for the intelligent exercise of the duties of citizenship. This objective is especially important for those training to become teachers.
2. Curricula leading to :
 - a. General Secondary Credential with major in Social Sciences, enabling the holder to teach in the secondary schools of the State ; this program involves a year of graduate work.
 - b. The A.B. Degree with differentiated majors in
 - (1) Social Sciences for students desiring a general cultural education with emphasis upon the social studies.
 - (2) Social Service, for those interested in the field of Social Welfare.
 - (3) Economics, for those interested in specialization in this field in preparation for graduate study or employment in industry or government service.
 - (4) History, for students interested in graduate work in this specialized field.
 - (5) Business Administration for those seeking to obtain managerial positions in business or government positions.
3. A three-year curriculum directed towards the A.B. Degree and Special Secondary Credential in Business Education.
4. A two-year, terminal, vocational course in Secretarial Training.

REQUIREMENTS FOR THE GENERAL SECONDARY CREDENTIAL WITH A MAJOR IN SOCIAL SCIENCES

LOWER DIVISION

Social Sciences	18-22 units
(Including :	
History 4A-4B	6 units
Economics 1A-1B	6 units
Political Science 1A-1B or Sociology 1A-1B	6 units
Fulfillment of requirement in U. S. History and Constitution— see page 39)	
English 1A-1B	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Orientation II	1 unit

Physical Education -----	2 units
(Including Phys. Educ. 5 or 15)	
Natural Sciences -----	12 units
(See page 39)	
Psychology 1 -----	3 units
Electives -----	6 units
(Chosen from Art, Foreign Language, Music, Philosophy, Speech, English 46A-46B or 74A-74B.)	
Completion of lower division requirements for a secondary minor. See list on page 41.)	

UPPER DIVISION

Social Sciences -----	24 units
(a) 6 units of upper division History	
(b) 6 units of upper division Economics	
(Note: Students may substitute for either requirement (a) or (b), but not for both, 6 units chosen from either upper division Sociology or Political Science.)	
(c) 12 additional units in upper division Economics or 12 additional units in upper division History.	
Education -----	14 units
(Education 110, 111, 115, 124, 153, 195SS, 170; see recommended sequence on page 59)	

Completion of upper division requirements for a secondary minor.

Electives to bring total to 120 units, thus completing requirements for the A.B. Degree.

History and Social Science majors who anticipate doing graduate work in History must have completed a course in "Aids to Historical Research" (History 197 or 198), and a course in "Special Studies in History" (History 199A or 199B) before being admitted to the graduate seminars.

For admission to the graduate year, the student must maintain the following scholarship standards:

Index on all work taken in the upper division -----	1.50
Index on all work taken in the major field -----	1.50
Index on all work taken in Education courses -----	1.00
Index on all work taken in the minor field -----	1.00

GRADUATE YEAR

Social Sciences -----	6 units
(Chosen from Economics 201A-201B, Economics 299A-299B, History 254A-254B, History 281A-281B, or 288A-288B)	
Education -----	10-12 units
(Education 270, 340, and four units from 212, 265, and 299)	
Major, minor, or electives -----	6-8 units
An index of 1.75 is required on all work taken in the graduate year.	
A minimum of 24 units in the graduate year is required.	

LIBERAL ARTS DEGREE CURRICULA IN THE SOCIAL SCIENCES**BASIC REQUIREMENTS COMMON TO ALL****LOWER DIVISION**

English 1A-1B -----	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences -----	12 units
(See page 39)	
Physical Education -----	2 units
(Including Phys. Educ. 5 and 15)	
Psychology 1 -----	3 units
Electives -----	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B, or 74A-74B)	
Fulfillment of requirement in U. S. History and Constitution. See page 39.	

OTHER REQUIREMENTS

Electives to bring total of units up to 120.

A minimum of 40 upper division units is required, including 24 upper division units in the major as specified.

The candidate must complete a minor, chosen from the list of minors on page 41, and must maintain a "C" average in all work taken toward the degree, and in all work taken in the major and the minor.

The student who expects to transfer to another institution for advanced work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

SPECIFIC REQUIREMENTS FOR DIFFERENTIATED MAJORS

SOCIAL SCIENCES

(For other requirements, see basic requirements given above.)

LOWER DIVISION

Social Sciences ----- 18 units
Including:

History 4A-4B ----- 6 units

Economics 1A-1B ----- 6 units

Year course chosen from the following:

Political Science

Sociology

Philosophy *or*

Geography ----- 6 units

UPPER DIVISION

Social Sciences ----- 24 units
(Economics, 6 units; History, 6 units; approved electives, 12 units)

SOCIAL SERVICE

(For other requirements, see page 128)

LOWER DIVISION

Social Sciences ----- 15 units
(Economics 1A-1B, 40, Sociology 1A-1B)

Health and Hygiene 1 ----- 2 units

UPPER DIVISION

Social Sciences ----- 27 units
(Sociology 101 (or equivalent), 102, 106, 110A-110B, 152A-152B, 160, and Economics 185 (or equivalent))

Education 111 ----- 2 units

Health and Hygiene 160 is recommended.

HISTORY

(For other requirements, see page 128)

LOWER DIVISION

Social Sciences ----- 12 units
(History 4A-4B, 8A-8B)
Economics 1A-1B is recommended.

Foreign Language ----- 10 units
(See page 42. History majors are advised to complete at least six additional units in foreign language or the equivalent)

UPPER DIVISION

History ----- 24 units

Including :

- (a) A six-unit survey course of broad scope in each of two fields,
European and American History
- (b) History 197 or 198
- (c) History 199A
- (d) Electives from History, Economics and Political Science
chosen in consultation with major advisor

ECONOMICS

(For other requirements, see page 128)

LOWER DIVISION

Social Sciences ----- 28 units

Including :

Economics 1A-1B, 40 ----- 9 units

Business Administration 14A-14B ----- 6 units

Geography 5 ----- 3 units

A year-course chosen from the following :

History 4A-4B, 8A-8B,

Sociology 1A-1B, or

Political Science 1A-1B ----- 6 units

UPPER DIVISION

Economics ----- 24 units

(Including 113, 135, 150, and 188 or 190A)

Note: Approved courses in Business Administration may be substituted
for 6 units of the 24 upper division unit requirements in Economics.**BUSINESS ADMINISTRATION**

(For other requirements; see page 128)

LOWER DIVISION

Social Sciences ----- 30 units

Including :

Business Administration 14A-14B, 15, 18 ----- 12 units

Economics 1A-1B, 40 ----- 9 units

Geography 5 ----- 3 units

A year-course chosen from the following :

History 4A-4B, 8A-8B,

Sociology 1A-1B, or

Political Science 1A-1B ----- 6 units

UPPER DIVISION

General requirements :

Business Administration ----- 9-12 units
(Business Administration 118, 120, 130,* 134)Economics ----- 12 units
(Economics 103, 135, 150, and 3 units approved by major adviser)

Special requirements : Nine upper division units in one of the following fields :

1. Accounting : Business Administration 160A, 160B, 161, 162, 169
2. Labor-Management Relations : Economics 106, 153, 155, 185 (or
other courses approved by major adviser)
3. General Business : Nine units in the field of the student's special
interest, approved by major adviser)

* Students who have completed Business Administration 160A-160B with a grade of "C" will be excused from this course requirement.

REQUIREMENTS FOR THREE-YEAR COURSE LEADING TO AN A.B. DEGREE AND SPECIAL SECONDARY CREDENTIAL IN BUSINESS EDUCATION †

(In addition to the academic requirements for this credential, the State requires 1,000 hours or six months of acceptable business experience.)

LOWER DIVISION

Business Administration	28 units
(Bus. Adm. 1A-1B, 2A-2B, 5A, 14A-14B, 18, 21, 50)	
English 1A-1B	3 units
Health and Hygiene 1	2 units
Natural Science	12 units
(Biology 10A-10B, and six additional units, four of which may be in the upper division)	
Physical Education	2 units
Psychology 1	3 units
Social Sciences	13 units
(Economics 1A-1B, Geography 5, and fulfillment of requirement in U. S. History and Constitution, see page 39)	
Speech 1	3 units

UPPER DIVISION

Economics and Business Administration	24 units
(Bus. Adm. 101, 118, 120, 134, 160A ; Economics 135)	
Education 110	2 units

REQUIREMENTS FOR

Junior High School Majors

Economics

Lower Division	Economics 1A-1B	6 units
	History 4A-4B or	
	Political Science 1A-1B	6 units
Upper Division	U.D. Economics	12 units
Total units required		24 units

History

Lower Division	Economics 1A-1B or	
	Political Science 1A-1B	6 units
	History 4A-4B	6 units
Upper Division	U.D. History	12 units
Total units required		24 units

Social Sciences

Lower Division	Economics 1A-1B or	
	History 4A-4B	6 units
	Political Science 1A-1B or	
	Sociology 1A-1B	6 units
Upper Division	U.D. Social Science	12 units
Total units required		24 units

† Fourth year to be completed at an institution authorized to grant this credential.

Additional requirements for the Junior High School Credential are given in detail on pages 55-57.

	<i>Minors</i>				
	<i>Economics</i>	<i>Bus. Adm.</i>	<i>History</i>	<i>Pol. Sci.</i>	<i>Sociology</i>
Lower Division -----	1A-1B	14A-14B	4A-4B	1A-1B	1A-1B
Upper Division -----	6 units	6 units	6 units	6 units	6 units
Total units required--	12 units	12 units	12 units	12 units	12 units

Minors for Candidates for the General Secondary Credential

<i>Social Sciences</i>		<i>Economics</i>	
Lower Division		Lower Division	
History 4A-4B -----	6 units	Economics 1A-1B -----	6 units
Economics 1A-1B -----	6 units	History 4A-4B or	
		Pol. Sci. 1A-1B-----	6 units
Upper Division		Upper Division	
History -----	6 units	Economics -----	9 units
Economics -----	6 units		
Total units required -----	24 units	Total units required -----	21 units

<i>History</i>	<i>Shorthand and Typing</i>	<i>Bookkeeping and Commercial Law</i>
Lower Division	Lower Division	Lower Division
Hist. 4A-4B----6 units	B.A. 1A-B-C __12 units	B.A. 14A-14B __6 units
Econ. 1A-1B or	B.A. 2A-B-C __ 6 units	B.A. 18 -----3 units
Soc. 1A-1B-----6 units		B.A. 2A-2B ----4 units
Upper Division	Upper Division	Upper Division
History -----9 units	B.A. 101 ----- 3 units	B.A. 118 -----3 units
	B.A. 105 ----- 2 units	B.A.160A-160B-6 units
	B.A. 112 ----- 3 units	Elective in B.A.
		or Economics_3 units
Total units required -----21 units	Total units required -----26 units	Total units required -----25 units

CURRICULUM IN SECRETARIAL TRAINING

The College offers a two-year terminal curriculum in Secretarial Training, a thorough course which prepares students for stenographic or secretarial positions. Students electing this curriculum must complete a minimum of 60 semester units of college work and must maintain a scholarship average of "C" in order to receive the two-year diploma.

Practical experience will be provided through the cooperation of business and professional employers. During the school year, students will be given opportunities for practical experience in actual employment situations under the supervision of the Business Administration staff.

Recommended Sequence

FRESHMAN YEAR

B.A. 1A-1B	8 units
B.A. 2A-2B	4 units
B.A. 4	2 units
B.A. 5	1 unit
B.A. 12	3 units
B.A. 21	3 units
B.A. 41	3 units
B.A. 50	2 units
English 1A	3 units
Physical Education (Including 5 or 15)	1 unit

SOPHOMORE YEAR

B.A. 1C-1D	8 units
B.A. 2C-2D	4 units
B.A. 14A-14B	6 units
B.A. 18	3 units
B.A. 101	3 units
B.A. 105	2 units
B.A. 112	3 units
Physical Education	1 unit

DESCRIPTION OF COURSES

HISTORY

LOWER DIVISION

4A-4B. History of Western Civilization (year) 3-3 units

A rapid survey of the political, economic, social, religious, and cultural development of western civilization from ancient times to the present.

First semester: From ancient times to the seventeenth century.

Second semester: From seventeenth century to the present.

History 4A is not necessarily prerequisite to 4B, although this sequence is recommended.

Required of all History and Social Science majors and minors.

Three one-hour periods per week.

8A-8B. History of the Americas (year) 3-3 units

A study of the development of the Western Hemisphere from discovery to the present. The first semester places emphasis upon exploration and settlement, colonial growth, imperial rivalries, and includes the achievement of independence. The second semester emphasizes the growth and development of the American nations and people in the last century and a quarter.

History 8B meets the requirements in United States history established by the Legislature of California.

Three one-hour periods per week.

70. History of the United States (fall) 2 units

A rapid survey from colonial times to the present. Development of the major political and social institutions of the American people; economic development; sectionalism; expansion. Emphasizes main currents.

This course meets the requirements in United States History established by the Legislature of California.

Two one-hour periods per week.

UPPER DIVISION

Prerequisite to all upper division courses in History: History 4A-4B, and History 70 or 8A-8B or consent of the instructor.

121A-121B. The Middle Ages (year)**3-3 units**

121A is a survey of the early Middle Ages. It covers the main events of European history from the fall of the Roman Empire to about 1150 A. D.

121B is a survey of the later Middle Ages. It covers the main events of European history from 1150 to 1450 with emphasis upon social, cultural, religious, and economic foundations of Western Europe.

Three one-hour periods per week.

124. World Organization for Peace**3 units**

A general survey of the historical background of the institutions and agencies of international government with major stress on international organization for peace.

Three one-hour periods per week.

142. Europe in the Sixteenth, Seventeenth, and Eighteenth Centuries**3 units**

The political, economic, social, and intellectual history of Europe from the Reformation to the fall of Napoleon.

Three one-hour periods per week.

143. Europe in the Nineteenth Century**3 units**

European society, politics, and international relations from the Congress of Vienna through the unification of Italy and Germany.

Three one-hour periods per week.

144. Europe Since 1870**3 units**

The history of Europe with special stress on the causes of the world wars and wars themselves.

Three one-hour periods per week.

148. Recent World History**3 units**

Political, economic, and social developments leading to World Wars I and II. Includes present-day international relations.

Three one-hour periods per week.

149. History of Russia**3 units**

Internal history of Russia with emphasis on Soviet Russia; Russia and the Soviet Union, the world politics, and world economics.

151A-151B. Economic, Political and Social History of England**3-3 units**

A study of the principal currents in political and social progress of England in modern times. Special emphasis is placed on economic trends and developments.

Three one-hour periods per week.

153. History of England**2 units**

A study of the English people through a survey of their political, economic, social, and cultural history.

Two one-hour periods per week.

161A-161B. Hispanic America**3-3 units**

The first semester covers the history of Latin America through the Wars of Independence. The second semester brings the history of these countries up to the present time. It includes a study of the relations among the various South American countries, and with the United States, Europe, and Asia. See also Political Science 126.

Three one-hour periods per week.

167. The Foreign Relations of the United States**3 units**

The foreign policy of the United States in the Nineteenth and Twentieth Centuries; the rise of the United States to a position of world power and the problems and changes growing out of this new position. See also Political Science 128.

Three one-hour periods per week.

- 168. United States as a World Power** **3 units**
 The emergence of the United States as a major power during the Twentieth Century and the international repercussions of America's developing influence.
 Three one-hour periods per week.
- 171. The United States: Colonial Period** **3 units**
 Political, social, and constitutional history of the United States through the colonial period to 1800.
 Three one-hour periods per week.
- 172. The United States: The Nineteenth Century** **3 units**
 Social, cultural, and political history of the United States from Jefferson's administration to 1898.
 Three one-hour periods per week.
- 174. The United States: The Twentieth Century** **3 units**
 Presents a general survey of political, social, and cultural aspects of United States history from 1898 to the present.
 Three one-hour periods per week.
- 181. History of the Westward Movement** **3 units**
 A study of the advances of the American frontier through its various stages from the Atlantic to the Pacific.
 Three one-hour periods per week.
- 188. History of California** **2 or 3 units**
 The economic, social, intellectual, and political development of California from the earliest time to the present. Two units for the regular class with the possibility of an extra unit by conference.
 Two one-hour periods per week.
- 194. History of Education in the United States** **2 units**
 The origin and rise of significant educational movements in the United States, with emphasis upon the integration of the American school system with our social institutions, the emergence and conflict of social classes, the changing balance between rural and urban life, immigration, movements of social reform, and governmental policy on social questions, and social impact of industrialization, urbanization, and war.
 Two one-hour periods per week.
- 197. Aids to Historical Research** **1 unit**
 An introduction to historical method, including a study of the auxiliary sciences.
- 198. History and Historians** **1 unit**
 A study of historiography, including intellectual processes by which history is written, the results of these processes, and the sources and development of history. Attention is also given to representative historians.
- 199A-199B. Special Studies in History (year)** **2-2 units**
 Individual investigation of selected topics. 199A is required of all history majors. To be taken in the senior year in a field for which specific preparation has been made in the junior year.

GRADUATE DIVISION

Prerequisites: Graduate standing, and the completion of History 197 or 198 and 199A or 199B.

- 254A-254B. Seminar in Modern European History** **3-3 units**
 Studies in specialized periods of European history with emphasis centering around the early and late Middle Ages.
- 281A-281B. Seminar in American History** **3-3 units**
 Studies in specialized periods of American history with emphasis centering around those subjects and periods for which the most research material is available; the colonial history of the United States; the Civil War period, and the Northwest.

288A-288B. Seminar in Local California History**3-3 units**

Studies in local California history, with emphasis upon the development of local institutions and industries.

ECONOMICS**LOWER DIVISION****1A-1B. Principles of Economics (year)****3-3 units**

First semester: Economic organization; the economic laws governing value, price, and the distribution of income; industry relations; the social security system.

Second semester: Money and banking; international trade, finance, and commercial policy; government finance; economic reform.

Three one-hour periods per week.

40. Elementary Statistics (spring)**3 units**

Theory and uses of statistical methods. Practice in tabular and graphical representation of data. Measures of central tendency, relationships, and dispersion. Coefficients, index numbers, time series, and other forms of statistical calculations based on practical relevant data. Use of calculating machines encouraged.

Students taking this course should consult the instructor concerning the adequacy of their mathematical background.

Three one-hour periods per week.

UPPER DIVISION

Prerequisite to all upper division courses in Economics: Economics 1A-1B or consent of the instructor.

103. Business Cycles**3 units**

A historical and descriptive study of the business cycle. Statistical analysis of business cycles and business forecasting. A comparison of various theories of the business cycle.

Three one-hour periods per week.

105. Consumer Economics**3 units**

A general survey of the economics of consumption in the United States with an analysis of the determination of consumer demands and of the sources of supply.

106. Social-Economic Reform Movements (spring)**3 units**

A historical and comparative survey of Socialism, Communism, Cooperation, and Utopianism, and other systems of reform and reconstruction.

See also Sociology 101.

Three one-hour periods per week.

113. Economic and Social History of the United States (spring)**3 units**

The development of American economic institutions and the interaction between economic factors and the social and political conditions in the United States.

Three one-hour periods per week.

135. Principles of Money and Banking (fall)**3 units**

The nature and function of money and credit; the structure and functions of the most important financial institution in American economic society.

Three one-hour periods per week.

150. Labor Economics (fall)**3 units**

A survey of modern labor conditions, followed by a study of the more specific labor problems related to wages, hours of work, conditions of work, unionism, economic security, and industrial relations.

Three one-hour periods per week.

153. Personnel Administration**3 units**

Personnel policies and procedures. Wage policy and administration. Collective bargaining procedures. Social aspects of industry and its effect upon personnel policy. The government's role in personnel administration.

Three one-hour periods per week.

155. Labor Legislation**3 units**

Industrial codes concerning safety and sanitation, and governing the employment of women and children in industry. Workmen's compensation; the Fair Labor Standards Act; laws and court decisions affecting wages, hours, picketing, union agreements, strikes, etc.

Three one-hour periods per week.

158. Government and Business**3 units**

Includes a study of governmental planning, governmental activity in the preservation and regulation of competition. Special emphasis is placed upon industrial codes and safety and sanitation legislation. Workmen's compensation, Fair Labor Standards Act, laws and court decisions, wages, hours, picketing, strikes, etc.

Three one-hour periods per week.

185. Social Insurance (spring)**3 units**

The causes of insecurity in the industrial system and of society's attempts to cope with the problem. Regularization of employment and other phases of economic planning; unemployment and old age insurance; security against industrial accidents and occupational diseases; health insurance; and public relief. See also Sociology 110A.

Three one-hour periods per week.

188. World Population and Resources (spring)**3 units**

Distribution of the world's population and resources and their relationship in terms of economic welfare; areas of population pressure; measures for economic cooperation in the interests of world peace.

Three one-hour periods per week.

190A. Principles of International Commerce (spring)**3 units**

The theory of international trade; balance of trade and payments; foreign exchanges and foreign trade financing; government control and direction of international trade.

Three one-hour periods per week.

190B. International Economic Policy**3 units**

Tariff and other mechanisms for the control of international trade; the reciprocal trade agreement program; and problems which will be of special importance for world economic reconstruction after the war, i.e., multilateral trade conventions, monetary stabilization, international investment, transport and communication agreements, international cartels and commodity agreements.

Three one-hour periods per week.

GRADUATE DIVISION

Prerequisites: Graduate standing and adequate preparation in Economics.

201A-201B. Development of Economic Thought**3-3 units**

A year course tracing the development of economic thought from classical times to the present time. Special emphasis will be given to the study of the physiocrats, of the economic philosophy of Adam Smith, of the Malthusian school, of classicism and utilitarianism, of the "National School of Political Economy," of the historical approach to Economics, of the rise of socialism and economic radicalism, and of recent economic doctrines.

299A-299B. Special Problems in Economics**3-3 units**

Assignment of special economic problems for intensive study.

BUSINESS ADMINISTRATION**LOWER DIVISION****1A. Shorthand I (fall, spring)****4 units**

Introduction to Gregg Shorthand. A thorough study of the Gregg System (Anniversary Edition). Functional principles, penmanship, and phrasing.

Five one-hour periods per week.

1B. Shorthand II (fall, spring)**4 units**

Beginning intensive theory. Development of speed in writing and transcription, particular attention being given to word building that develops new vocabulary. Includes a course in secretarial training and office practice.

Prerequisite: Business Administration 1A or its equivalent.

Five one-hour periods per week.

1C. Shorthand III (fall, spring)**4 units**

An intensive dictation course. This course will include dictation and transcription, covering vocabularies of representative businesses, such as banking law, insurance, retail lumber; advanced dictation on news articles and legal forms.

Prerequisite: Business Administration 1B or its equivalent.

Five one-hour periods per week.

1D. Shorthand IV (fall, spring)**4 units**

Speed building drills, speed building letters, sustained dictation, vocabulary reviews, vocabulary, analysis, word studies, vocational dictation, speed-progression tests—in brief, a systematic speed course for advanced writers.

Prerequisite: Business Administration 1C or its equivalent.

Five one-hour periods per week.

2A. Typewriting I (fall, spring)**2 units**

A skill subject designed to teach the fundamentals of touch typing in the shortest possible time.

Six one-hour periods per week.

2B. Typewriting II (fall, spring)**2 units**

Advanced technique and practice. Stress will be placed upon the prevention of bad habits in typewriting, remedial typewriting, letter writing, carbon copies, addressing envelopes, continuity and rhythm.

Prerequisite: Business Administration 2A or its equivalent.

Six one-hour periods per week.

2C. Typewriting III (fall, spring)**2 units**

Expert typing drills, tabulating, billing, problems involving the working out of real office jobs under office conditions.

Prerequisite: Business Administration 2B or its equivalent.

Six one-hour periods per week.

2D. Typewriting IV (fall, spring)**2 units**

Advanced drills for accuracy and speed; law office typing.

Prerequisite: Business Administration 2C or its equivalent.

Six one-hour periods per week.

4. Word Study (fall)**2 units**

A study of words used in business and industry with special drill on those commonly misspelled.

Two one-hour periods per week.

5A-5B. Business Machines (fall)**1-1 units**

An intensive study of modern office machinery, including adding and calculating machines. The purpose of this course is to train commercial teachers and to meet the demand of present-day business life for skilled operators.

Three one-hour periods per week.

12. Bookkeeping (spring)**3 units**

An introductory course in present-day theory and practice. Designed for those students with an employment objective who desire practical training in bookkeeping.

Three one-hour periods per week.

14A-14B. Principles of Accounting (year)**3-3 units**

First semester: An introduction to the study of accounting. The mechanics of bookkeeping, balance sheet approach, including the general journal, specialized journals, posting, trial balances, columnar working sheets, closing entries, balance sheets, and profit and loss statements.

Prerequisite: Sophomore standing.

Second semester: An introduction to the study of accounting characteristics of the partnership and corporate form of business organization, cost accounting, department and branch accounting, analysis and interpretation of financial statements.

Prerequisites: B. A. 14A.

Two one-hour lecture periods and one two-hour laboratory period per week.

15. Mathematics of Finance (fall)**3 units**

Presentation of the fundamentals of mathematics used in business transactions. Includes short-cut methods to facilitate rapid calculations, fractions, percentages, insurance computations, equations, simple and compound interest and discount, annuities, etc.

Prerequisite: Intermediate algebra or two years of high school algebra.

Three one-hour periods per week.

18. Business Law (fall)**3 units**

Historical development of law and its functions with respect to business. Special emphasis on courts and court procedure, law of contracts, and the law of negotiable instruments. Textbook, cases, and lectures.

Three one-hour periods per week.

Prerequisite: At least sophomore standing.

21. Business Mathematics (spring)**3 units**

Designed to give students a workable conception of the fundamental principles of the mathematics of business. The principles and processes of simple and compound interest, simple and successive trade discount, bank discount, and annuities are taught by means of practical problems.

Three one-hour periods per week.

41. Business English (spring)**3 units**

Fundamentals of grammar and sentence structure; punctuation; personal letters; the letter in business.

Prerequisite: Satisfactory score on Subject A test.

Three one-hour periods per week.

50. Salesmanship (fall)**2 units**

The personality and training of the salesman, sales analysis, interviews, steps in selling, the approach, arousing interest, producing conviction, creating desire, buying motives, closing the sale. Textbook, educational trips, and lectures.

Two one-hour periods per week.

UPPER DIVISION**101. Business Correspondence (fall)****3 units**

The letter in business; telegrams, memorandums, reports, advertising; the art of proofreading.

Prerequisite: English 1A.

Three one-hour periods per week.

105. Dictation and Transcription (fall)**2 units**

Essential points of English, style, and interpretation of 75,000 words of practice material all in shorthand. This course includes extensive dictation. Students are taught to check the spelling or division of every doubtful word and to refuse to transcribe a sentence if it does not "make sense."

Prerequisite: Business Administration 1C or its equivalent.

Six one-hour periods per week.

112. Secretarial Training (spring)**3 units**

The course is based on an activity program making performance in an actual business situation the major objective. A study is made of Form and Follow-up Letters, Telegraphic, Cable, and Radio Service, Banking and Financial Duties, Instruments of Credit, Office Machines and Appliances. Practical secretarial problems involving personality studies and business etiquette; the telephone, transportation, interviewing callers, keeping business calendars; and sources of material on business subjects.

Prerequisite: Business Administration 2B and 101.

Nine one-hour periods per week.

118. Business Law II (spring)**3 units**

A second course in business law with special emphasis on business organization, including partnerships, corporations, and agency; personal and real property, including sales, bailments, mortgages, landlord and tenant, lieu laws; security relations, including conditional sales, suretyships, insurance; trade regulations. Textbook, cases, and lectures.

Prerequisite: B.A. 18.

Three one-hour periods per week.

120. Business Organization (fall)*3 units**

Introduction to business management; the economic framework of modern business; management of physical and human resources; management of production and sales; administrative controls.

Three one-hour periods per week.

125. Retail Advertising (fall)**3 units**

The planning and execution of advertising for the retail business: research, budgets, media, copy, layout, and management of the advertising department.

Prerequisite: B. A. 134.

Three one-hour periods per week.

130. Business Finance (spring)*3 units**

The instruments and methods of financing the industrial enterprise. Includes financing methods of the smaller and larger forms of business organization.

Three one-hour periods per week.

133. Personal Finances and Investments (spring)**3 units**

A study of financial institutions and methods of achieving financial security, including borrowing and lending, controlling budgets, investing in securities, buying insurance and annuities, arranging for trust funds, financing home ownership, figuring income tax.

Three one-hour periods per week.

134. Marketing (spring)*3 units**

The organization and management of markets. A survey of the activities involved in transferring manufactured goods and agricultural products from producer to consumer.

Three one-hour periods per week.

160A-160B. Advanced Accounting (year)**3-3 units**

Intensive study of the advanced theory of accounts and its application. Textbook, selected problems, and lectures on the various phases of accounting theory and practice.

Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B; 160A prerequisite to 160B.

161. Cost Accounting (fall)*3 units**

Intensive study of methods used in accounting for production costs. Includes job order system, process system, and standard costs. Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B. B.A. 160A recommended.

* Not offered 1948-1949.

- *162. Auditing (spring)** **3 units**
 Presentation of modern auditing principles and procedures followed in an examination of financial statements. Textbook, selected cases and problems and lectures.
 Two one-hour lectures and one two-hour laboratory section per week.
 Prerequisite: B.A. 14A-14B, 160A. 160B is recommended.
- 169. Federal Income Tax Procedure (fall)** **3 units**
 A study of the federal laws relating to personal estate, and corporation income taxes, from the accounting point of view. Lectures and case problems.
 Prerequisite: B. A. 14A-14B.
 Three one-hour periods per week.

GEOGRAPHY

LOWER DIVISION

- 2. Cultural and Regional Geography (fall, spring)** **2 units**
 The physical environment as the home of man; the adjustments between population groups and the areas where they live; regional differences and their causes.
 Two one-hour periods per week.
- 5A-5B. Introduction to Economic Geography (year)** **3-3 units**
 A geographic interpretation of man's economic activities. Includes a study of the natural environment and a regional survey of the world's agricultural, industrial, and mineral distribution.
 Three one-hour periods per week.

UPPER DIVISION

- 123. International Geopolitics** **2 units**
 See Political Science 123.
 Two one-hour periods per week.
- 181. Current Problems in Political Geography** **2 units**
 See Political Science 127.
 Two one-hour periods per week.

PHILOSOPHY

LOWER DIVISION

- 6A-6B. Introduction to Philosophy (year)** **3-3 units**
 First semester: An elementary survey of the fundamental concepts and issues in ethics, logic, metaphysics, religion, ontology, and the theory of knowledge. Illustrations are drawn from the philosophical sources, including the philosopher-poets and contemporary writers.
 Second semester: A special consideration of the basic problems of philosophy, including historical references to solutions presented in the past.
 Three one-hour periods per week.

UPPER DIVISION

- 106. Reform Movements** **3 units**
 See Economics 106.
- 113. Contemporary Thought** **2 units**
 A survey and critical analysis of the more prominent philosophies of the present day, with particular emphasis upon political thought. Students who have credit for Political Science 113 may not receive additional credit for this course.
- 124. Philosophy of Education** **2 units**
 See Education 124.

POLITICAL SCIENCE**LOWER DIVISION****1A-1B. Introduction to Government (year) 3-3 units**

A study of the development, ideology, techniques, organizations and functions of various governments. Comparison and contrast with the government of the United States is stressed. The first semester covers the United States Government while the second semester includes selected foreign governments.

Three one-hour periods per week.

51. American Constitutional Government (spring) 2 units

A study of the structure, operation, and development of the American constitutional system.

This course meets the requirements in United States Constitution established by the Legislature of California.

Two one-hour periods per week.

UPPER DIVISION**113. Contemporary Political Thought 2 units**

A survey and critical analysis of the major political ideas of the present day, with particular emphasis on American views.

Two one-hour periods per week.

114. Public Opinion, Propaganda, and Political Dynamics 2 units

An analysis of the nature of public opinion, its effectiveness, and the devices for influencing it; the newspaper, radio, motion picture, and other instruments of communication are studied; pressure groups of local, state, and national significance are included. Emphasis will be placed upon the relationship between government and public opinion, noting particularly the relationship between the two and the problem of peace and war.

Two one-hour periods per week.

115. American Political Ideas 2 units

An exposition and critical analysis of the major political ideas in American history with special emphasis upon the recent thinking about American political ideas. Among the problems discussed in a search for a sound philosophy for democracy will be the ideas of majority rule, public opinion, propaganda, society's needs, minority rights, and force and persuasion.

Two one-hour periods per week.

123. International Politics 2 units

Problems of nationalism, imperialism, and world federation, particularly in connection with current problems of maintaining peace; the course includes a study of geopolitical problems.

Two one-hour periods per week.

124. International Organizations 3 units

See History 124.

126. Latin-American International Relations 3 units

See History 161B.

127. International Relations 3 units

A study of the instruments, techniques, institutions, and problems of international government with stress upon current issues of international diplomacy, including the United Nations.

Three one-hour periods per week.

128. Recent Foreign Policy of the United States 3 units

See History 167.

138. International Relations in the Far East 2 units

Historical development and present difficulties in the relations between the various world powers in the Pacific area; the changing importance of the Far East and its resultant problems.

152. American Political Parties and Practical Politics **2 units**

A study of the role of political parties in American government; an analysis of the history, organization, and activities of parties; a study of the mechanisms which influence political parties; pressure groups; practical politics studied from the point of view of the nominating systems; the conduct of elections; campaign techniques, voting; and the spoils system.

Two one-hour periods per week.

153. The Government of Great Britain **2 units**

A study of the legal, administrative, and parliamentary development of England from Anglo-Saxon times to the present.

Two one-hour periods per week.

158. Government and Business **3 units**

See Economics 158.

198. Directed Reading in Political Science **2 units**

This course will include selected readings in political theory, international relations, administrative management, politics, and legislation, and Latin American political institutions.

PSYCHOLOGY

LOWER DIVISION

1. General Psychology (fall, spring) **3 units**

An introduction to the study of human behavior, emphasizing the significance of maturation, learning, motivation, and individual differences as they evolve in personality.

Usually restricted to sophomores.

Three one-hour periods per week.

2. Applied Psychology **3 units**

Survey of the areas in which the general principles of psychology are applied, such as medicine, advertising, salesmanship, religion, business and personal relations. Course begins with a short survey of general principles; remainder of semester is devoted to independent supervised study of particular fields of application of student's own choice.

40. Introduction to Statistical Methods **3 units**

Students who have credit for Economics 40 may not receive credit for this course.

Three one-hour periods per week.

UPPER DIVISION

105. Social Psychology **3 units**

Includes a study of the relationship between social organization and the normative personality attributes of the members of society; special attention is directed toward the socialization process and the ways in which the human organism develops what is commonly known as human nature in collectively maintained associations. The problems of society growing out of ethnic, racial, class, sex, and age differences are discussed.

Three one-hour periods per week.

110. Educational Psychology **2 units**

See Education 110.

111. Child Growth and Development **2 units**

See Education 111.

114. Public Opinion, Propaganda and Morale **2 units**

See Political Science 114.

- 115. Measurement in Education** 2 units
See Education 115.
- 153. Psychology of Personnel Management** 3 units
See Business Administration 153.
- 199. Special Problems in Psychology** 3 units
Prerequisite: At least six units upper division Psychology.

GRADUATE COURSES

Prerequisite: Graduate standing and adequate preparation in Psychology.

- 212. Psychology of Adolescence** 3 units
A study of the physical, mental, social and emotional adjustment of the adolescent; ways of diagnosing personality development in relation to his educational and social needs; case method technique for investigating adolescent behavior.
Three one-hour periods per week.

SOCIOLOGY

LOWER DIVISION

- 1A-1B. Introduction to Sociology (year)** 3-3 units
A study of sociological principles in terms of human relationships and social institutions.
Three one-hour periods per week.

UPPER DIVISION

Prerequisite to all upper division courses in Sociology: Sociology 1A-1B or consent of instructor.

- 101. Social Economic Reform Movements** 3 units
See Economics 106.
- 102. Methods in Social Work** 3 units
A survey of the field of social welfare and of social work functions. An introduction to the techniques and skills of social case work.
Three one-hour periods per week.
- 103. Crime and Delinquency** 2 units
A survey of the problem of adult crime and juvenile delinquency including associated factors and processes in the administration of criminal justice, and the juvenile court.
Two one-hour periods per week.
- 106. Community Organization** 2 units
The concept of the community, the sociological background of community organization. Methods in studying the community.
Two one-hour periods per week.
- 110A-110B. The Social Services** 3-3 units
The modern public services. Field work under supervision in public welfare.
- 152A-152B. Child Welfare** 3-3 units
A general survey of the field for the care and protection of dependent and neglected children. Application of case work concepts to child welfare.
Three one-hour periods per week.
- 160. The Family** 3 units
A study of the social development of the family and its contribution to cultural continuity; emphasis upon modern problems of family life and possible solutions.
Three one-hour periods per week.

GROUP MAJOR

The Group Major has been developed to serve the needs of those students who wish to secure an A.B. Degree which is broadly cultural in character. It provides a "General Education" background for those who wish to pursue a type of professional training which demands a broad rather than a specialized undergraduate program. Many combinations are possible, as the listings below indicate.

The lower division program for a Group Major must include the following :

English 1A-1B -----	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school) -----	
Natural Sciences -----	12 units
(See page 39)	
Physical Education (including 5 or 15) -----	2 units
Psychology -----	3 units
Social Science -----	12 units
(Including fulfillment of requirement in U. S. History and Constitution—see page 39)	
Electives -----	6 units
(Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B, 74A-74B.)	

The major consists of 36 units in the upper division, distributed among three subject-fields, chosen from the lists of majors and minors on pages 40 and 41 or from subdivisions of those fields, as listed under the various divisions of the curricula. The student following this major may, in consultation with his adviser, arrange the distribution of the 36 units in whatever proportion seems best, subject, however, to the following requirements :

(a) Not less than six upper division units must be taken in each field, together with the lower division prerequisites ; the total of upper division units in any one field should not exceed 18.

(b) Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page 40).

(c) Sufficient work must be taken in another field to meet the minimum requirements of the State for a minor (see page 41).

SUGGESTED GROUP MAJORS

Allied Arts	English	Music
(See page 66)	History	Speech
English	Economics	English
Foreign Language		
Speech	Natural Sciences	Natural Sciences
	Physical Education	Business Administration
English	Social Service	Mathematics
Journalism		
Social Sciences	Radio	Social Sciences
	Business Administration	Foreign Languages
Education	Journalism	Speech-Radio
Social Service		
Home Economics		

HUMBOLDT STATE COLLEGE

DIRECTORY OF PERSONNEL

Administered Through the
STATE DEPARTMENT OF EDUCATION

EXECUTIVE OFFICERS

ROY E. SIMPSON-----Superintendent of Public Instruction and Director of Education
AUBREY A. DOUGLASS-----Associate Superintendent of Public Instruction
and Chief, Division of State Colleges and Teacher Education

STATE BOARD OF EDUCATION

WILLIAM L. BLAIR, *President*-----Pasadena
RAYMOND J. ARATA-----San Francisco
BYRON H. ATKINSON-----Glendale
RALPH T. FISHER-----Oakland
C. J. HAGGERTY-----San Francisco
MRS. E. T. HALE-----San Diego
GILBERT H. JERTBERG-----Fresno
JOSEPH P. LOEB-----Los Angeles
FRED W. SMITH-----Ventura
MRS. E. K. STRONG-----Stanford University

COLLEGE ADMINISTRATIVE OFFICERS AND ASSISTANTS

Arthur S. Gist	President
Homer P. Balabanis	Vice President and Dean of Arts and Sciences
Ivan C. Milhous	Dean of Professional Education
Harry E. Griffith	Director of Elementary Education and Principal of College Elementary School
Albert D. Graves	Director of Secondary Education
Eugenia C. Loder	Dean of Women and Director of Health
Myrtle M. McKittrick	Registrar
Jessie T. Woodcock	Comptroller
Helen A. Everett	Librarian
Floyd Erickson	Senior Librarian
Wallace C. Look	Senior Librarian
Dean Galloway	Junior Librarian
Herbert Moore, M.D.	College Physician
Noah A. Stromberg, Robert Bryan, Leland Domeyer	College Dentists
Edna Vincent	Secretary to the President
Evelyn M. Plunkett	Recorder
Eugene A. Flocchini	Assistant to the Comptroller
Melba Jo Turner	Secretary to the Dean of Arts and Sciences
Helen Walker	Secretary to the Principal of the College Elementary School
A. E. Zetterburg	Manager of Housing
Mary Gordon	Switchboard Operator
Margaret Brookins	Comptroller of Student Accounts
Bernice Cohen, Beulah Harper, Delta Hogue, Leah Jensen, June Offenbacher, Richard Tinkey, Geraldine Williams	Clerical Assistants
Alexander McMillan	Supervisor of Buildings and Grounds

DIVISIONAL CHAIRMEN, 1948-49

Division of Fine and Applied Arts	Don W. Karshner
Division of Health and Physical Education	Harold A. Bishop
Division of Language and Literature	Maurice Hicklin
Division of Natural Sciences	Harry D. MacGinitie
Division of Social Sciences	Kenneth P. Bailey

HUMBOLDT STATE COLLEGE IMPROVEMENT ASSOCIATION

An incorporated body to obtain necessary property for the State and
to serve in an advisory capacity for the College

J. J. Krohn, President

Arthur S. Gist, Secretary

Charles R. Barnum
S. D. Cerini

Chester Connick
Vernon L. Hunt

Gordon Manary
Robert W. Matthews

FACULTY COMMITTEES—1947-48

Administrative Council President Gist, Chairman Dr. Balabanis Mr. Griffith Dr. Loder Dr. Milhous Mrs. McKittrick	Health Dr. Loder, Chairman Mr. Griffith Dr. MacGinitie President Gist	Recreation and Social Life Mrs. Graves Mr. Roberts Miss Cornelius Mrs. Woodcock Mrs. Barlow
Academic Council Dr. Balabanis Dr. Milhous Divisional Chairmen	Honor Awards President Gist Miss Johnson Mrs. McKittrick Dr. Balabanis Dr. Milhous	Scholarship Miss Platt, Chairman Dr. Balabanis President Gist Miss Johnson Mrs. McKittrick Mr. Arnold
Admissions President Gist Mrs. McKittrick Mr. Griffith Dr. Balabanis	Library Dr. Balabanis, Chairman Dr. Bailey Mrs. Everett Dr. Milhous Mr. Bishop Mr. Hicklin Mr. Karshner Dr. MacGinitie	Student Personnel Mr. Griffith, Chairman Mrs. McKittrick Dr. Loder President Gist
Assembly Mr. DeLay, Chairman Mr. Karshner President Gist President Student Body		
Curriculum Dr. Balabanis Dr. Milhous President Gist Mrs. McKittrick		

FACULTY

GIST, ARTHUR S., M.A.

PRESIDENT

B.Ed., M.A., University of Washington; additional graduate study, University of California, Columbia University. Director Teacher Training, San Francisco State Teachers College; Summer Session Faculty, University of Washington, University of Utah, George Peabody College for Teachers, University of California, University of Southern California, University of Texas, Syracuse University. Author: "Elementary School Supervision"; "Administration of an Elementary School"; "Clarifying the Teacher's Problems"; "Administration of Supervision"; "The Teaching and Supervision of Reading" (co-author); "New Stories from Eskimo Land" (co-author). Editor of Yearbooks, Department of Elementary School Principals, National Educational Association.

ALWARD, HERBERT V., JR., M.A.

ASSISTANT PROFESSOR OF ENGLISH
AND JOURNALISM

A.B. English, San Francisco State College; M.A., School of Journalism, University of Oregon; Graduate teaching assistant, University of Oregon School of Journalism; Summer Session faculty, University of Oregon; Faculty, Oregon State System of Higher Education, Portland Summer Session. Three and one-half years' newspaper experience.

ANDERSON, ROY C., Ed.D.

ASSISTANT PROFESSOR OF EDUCATION

A.B., Augustana College; M.A., University of Michigan; Ed.D., Stanford University; Northern Michigan College of Education. Elementary and high school teacher; Statistician and psychological consultant, United States Army and Army Air Forces; participant, Richmond School Survey.

ARNOLD, HOMER L., M.A.

PROFESSOR OF MATHEMATICS AND PHILOSOPHY

B.S., Indiana State Teachers College (Eastern Division); A.B., University of Indiana; M.A., University of Chicago; additional graduate study, University of Chicago, Stanford University, University of Michigan. Head of Department of Mathematics, Central High School, Elkhart, Indiana; teacher of mathematics, Central High School, Kalamazoo, Michigan, and Central Union High School, Calumet-Laurium, Michigan; Head of Department of Education and Psychology, New Mexico State Teachers College. Member American Mathematical Society.

BAILEY, KENNETH P., Ph.D.

PROFESSOR OF HISTORY

A.B., M.A., and Ph.D., University of California at Los Angeles. Teaching Assistant and Instructor in History, University of California at Los Angeles. Chairman Social Science Department and Director of Guidance, Oceanside Junior College. Author: "The Ohio Company of Virginia: A Chapter in the History of the Colonial Frontier"; "Thomas Cresap, Maryland Frontiersman"; "Papers of the Suffering Traders"; and "American Institutions in Critical Times." Winner of Pacific Coast Branch of American Historical Association award for best book by Pacific Coast Writer in field of American History in 1939.

BALABANIS, HOMER P., Ph.D.

VICE PRESIDENT, DEAN OF THE SCHOOL OF ARTS
AND SCIENCES AND PROFESSOR OF ECONOMICS

Ph.B., M.A., University of Chicago; Ph.D., Stanford University. Assistant, School of Commerce and Administration, University of Chicago; Teaching Assistant, Department of Economics, Stanford University; Summer Session Faculty, San Jose State College, Fresno State College, Miami University (Ohio); Director of Summer Session, Humboldt State College. Senior Economist, Office of Price Administration, Washington, D. C., 1943; Principal Divisional Assistant, Economic Affairs, Department of State, 1943-1944. Author: "The American Discount Market," "Travel Sketches of Europe." Contributor to "Encyclopedia Americana" and "Americana Annual."

BARLOW, LELAND, M.A.

ASSISTANT PROFESSOR OF MUSIC

Mus.B., Oberlin Conservatory; M.A., State University of Iowa. Instructor in music, Dakota Wesleyan University; instructor in voice, choral work and choral conducting, Oberlin Conservatory of Music; U. S. N. R., 1942-1946. Director "Meet Your Navy" choir and "Bluejacket Choir" on weekly coast-to-coast broadcasts.

BISHOP, HAROLD A., B. P.E.

ASSISTANT PROFESSOR OF PHYSICAL EDUCATION

B. P.E., Springfield College, Massachusetts; Graduate study, University of California at Los Angeles, University of Southern California, Claremont College, and University of Oregon. Teacher of Physical Education and coach, elementary and high schools; Principal, Military Academy, Brentwood, California; Director of summer camps and workshops; Athletic Officer, U. S. Army; Teaching Assistant, University of Oregon; State Supervisor of Health and Physical Education, State of Oregon; Director of Athletics, Health and Physical Education, Southern Oregon College of Education. Member, Phi Delta Kappa.

BUCHANAN, KATE, M.A.

ASSISTANT PROFESSOR OF ENGLISH

A.B., University of Oregon; M.A., Washington State College; Graduate study, Columbia University. Teacher of English and Speech, Roseburg Senior High School, Oregon; Head Resident, Girl's Dormitory, University of Oregon; University Summer Employment Office, Portland, Oregon; Dean of Women and teacher of English and Speech, Lewis and Clark College, Portland, Oregon; Assistant Director, U.S.O., Salt Lake City, Utah; Supervisor Women's Housing, Women's Counselor, du Pont War Project, Hanford, Washington; Instructor in English, University of Oregon.

BULLEN, NEWELL REESE, M.A.

ASSISTANT PROFESSOR OF ART

A.B., Utah State Agricultural College; M.A., Stanford University; Certificate of Completion, University of Paris; additional study at Academy of Advertising Art.

CONRAD, WARREN, M.S.

ASSISTANT PROFESSOR OF PHYSICAL EDUCATION

A.B., Santa Barbara State College; M.S., University of Southern California; Physical Training Officer, U. S. Army Air Forces; Elementary school teacher; Playground Director, Los Angeles; Associate Professor of Physical Education and Director of Athletics, Chapman College.

CORNELIUS, SARAH R., M.A.

ASSISTANT PROFESSOR OF EDUCATION

Ed.B., U. C. L. A.; M.A., Columbia University. Classroom teacher, South Pasadena, California; Lower Merion, Pennsylvania; New York City. Supervisor Student Teaching, State Teachers College, California, Pennsylvania; Principal, Roosevelt School, Lancaster, California; Principal, Center Street School, Manhattan Beach, California.

***DELAY, THEODORE S., JR., M.A.**

ASSISTANT PROFESSOR OF SPEECH AND RADIO

A.B. Carnegie Institute of Technology; M.A., University of Southern California; Graduate of U. C. L. A.-N.B.C. Radio Institute; additional graduate study at the University of Michigan and Denver University. Program Manager, Radio Station WBRY, New Haven, Connecticut; Instructor, Sanger Union High School, Sanger, California; Personnel Services and the Armed Forces Radio Services, A.A.F., 1942-1946.

ERICKSON, FLOYD R., B.S.

SENIOR LIBRARIAN

B.E., State Teachers College, Superior, Wisconsin; B.L. in Library Science, University of Minnesota. Order Librarian, Stout Institute, Menomonie, Wisconsin.

EVERETT, HELEN A., M.A.

LIBRARIAN

A.B., University of Oregon; Certificate of Librarianship and M.A., University of California. Teacher in Bandon and Eugene high schools, Oregon, and University of Oregon; Library assistant, Universities of Oregon and California; Acting Librarian, Southern Oregon College of Education; Librarian, Marshfield High School, Oregon; School Library Supervisor, Medford, Oregon.

FORBES, JOSEPH, A.B.

ASSISTANT PROFESSOR OF PHYSICAL EDUCATION

A.B., Occidental College; graduate work, Occidental College and University of Southern California and University of Oregon; advanced corrective work at Los Angeles Orthopaedic Hospital. Assistant track coach, Occidental College; high school football and basketball coach; coach, Compton Junior College.

FULKERSON, CHARLES, A.B.

ASSISTANT PROFESSOR OF MUSIC

A.B., San Jose State College; graduate study, University of Southern California. Piano study under Benning Dexter, John Crown, Alice Ehlers.

GADDIS, SHIRLEY, Ph.D.

ASSISTANT PROFESSOR OF PHYSICAL SCIENCE

A.B., M.S., University of Iowa; M.S., Ph.D., University of Missouri; additional graduate study, University of Michigan, University of Chicago, University of Illinois, Columbia University; High school teacher; Instructor in Chemistry and Mathematics, Green Mountain Junior College; Assistant professor of Chemistry, Colorado State College; Illinois College, Stephens College; Professor of Chemistry, Eureka College; Associate Professor of Chemistry, Champlain College; Summer Session Faculty, University of Missouri. Contributor to "Journal of Chemical Education" and "Chemist Analyst." Member, Phi Lambda Upsilon.

GALLOWAY, RICHARD DEAN, A.B.

JUNIOR LIBRARIAN

A.B., Humboldt State College.

GOODIN, ADDIE LOU, B.S.

ASSISTANT PROFESSOR OF HOME ECONOMICS

B.S., College of St. Catherine; Graduate study, University of Minnesota, University of California at Los Angeles, University of California at Berkeley, Oregon State College. Instructor in Home Economics in Cleveland, Ohio, Montebello and Willits, California High Schools.

* Leave of Absence, 1948-49

GRAVES, ALBERT D., M.A.

LECTURER IN EDUCATION

A.B., M.A., and additional graduate study, Stanford University. City Superintendent of Schools, San Bernardino; Deputy Superintendent of San Francisco Schools in charge of secondary education; Associate Superintendent of San Francisco Schools in charge of instruction; Summer Session Faculty, Redlands University, Claremont Colleges Graduate School; San Francisco State College, Stanford University; faculty, Extension Division, University of California; faculty, Stanford University. Member, Phi Delta Kappa; contributor to educational journals and yearbooks.

GRAVES, THELMA WALTERS, A.B.

ASSISTANT IN HOME ECONOMICS

A.B. University of California, Santa Barbara. Teacher in public secondary schools at San Bernardino and San Francisco. President of San Francisco Home-making Division of California Home Economics Association. Member of Western Home Economists' Testing Panel.

GRIFFITH, HARRY E., M.A.

PROFESSOR OF EDUCATION

Ed.B., University of California at Los Angeles; M.A., University of California at Berkeley; additional graduate study at Claremont Colleges, University of Southern California and Stanford University. Instructor in Physical Education, Central Junior High School, Riverside, California; Instructor in Physical Education and Head of Department, Riverside Junior College and High School; Summer Session Instructor in Physical Education, University of California at Los Angeles. U. S. Army, Major, Director of Normal Schools and Teacher Training in Japan.

HICKLIN, MAURICE, M.A.

PROFESSOR OF ENGLISH

A.B., University of Missouri; B.J., School of Journalism, University of Missouri; M. A., Stanford University, Graduate teaching assistant, University of Missouri; Instructor, University of Washington; graduate teaching assistant, Stanford University; Summer Session Faculty, University of California at Los Angeles.

*JACKSON, WILLIAM F., M.B.A. ASSISTANT PROFESSOR OF BUSINESS ADMINISTRATION

B.S., M.B.A., University of California; teaching assistant, Department of Business Administration, University of California; member Beta Alpha Psi, Phi Beta Kappa, and Beta Gamma Sigma.

JEFFERS, HAZEL, B.Mus.

ASSISTANT PROFESSOR OF MUSIC

B.Mus., Illinois Wesleyan University. Student of Piano under Edmund Munger. Music and Art Supervisor in East McKeesport, Pennsylvania; Secretary, International Congress on Education for Democracy, Columbia University; graduate study, University of Southern California.

JENKINS, R. HORACE, M.S.

PROFESSOR OF INDUSTRIAL EDUCATION

B.S. and M.S., Oregon State College; Graduate, Central State Teachers College, Oklahoma, four-year Classical Course and three-year Art and Shop Course; additional study, Oswego State Normal School, University of California, University of Chicago, Columbia University, Stanford University. Assistant in Art, Oklahoma State Teachers College; practical experience in trades and industries; experience as owner and manager of commercial pottery shop. Author of "Practical Pottery for Craftsmen and Students"; contributor to "Industrial Arts and Vocational Education, Popular Science, Mechanics Illustrated, School Arts, Science and Mechanics, Ceramic Age, Home Craft, and Instructor.

JOHNSON, ADELLA, M.A.

ASSOCIATE PROFESSOR OF MODERN LANGUAGES

A.B., University of Minnesota; M.A., University of Washington; additional graduate study, University of Washington, Stanford University, Columbia University, University of Minnesota, University of California, Casa Panamericana, Mills College, University of Paris, France. Travel in Europe with Intercollegiate French School; travel in Mexico. Teaching Fellow in French, University of Washington; Department Head, Foreign Languages, State Teachers College, Spearfish, South Dakota.

KARSHNER, DON W., A.B.

ASSISTANT PROFESSOR OF SPEECH

A.B., Washington State College; graduate study, Washington State College, Stanford University. Teacher in public secondary schools at Aberdeen and Seattle, Washington; Teaching Fellow in Stanford Language Arts Investigation; Instructor, Menlo School and Junior College, Menlo Park, California.

KNOWLES, WILLIAM, M.A.

ASSISTANT PROFESSOR OF ECONOMICS

B.S., Iowa State College. M.A. and two years beyond M.A. at University of Wisconsin. Worked in Industrial Relations Department of Allis Chalmers Manufacturing Company; Wage Stabilization Division of War Labor Board.

LANPHERE, WILLIAM M., Ph.D.

PROFESSOR OF BIOLOGICAL SCIENCES

B.S., M.S., and Ph.D., University of Washington. Teaching Fellow and Associate in Biological Science, University of Washington; Instructor, Western Washington College of Education.

* Leave of Absence, 1948-49

LEWIS, JOHN H.

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES

B.S., Oregon State College; graduate study, Oregon State College. Employed by U. S. Wildlife Service, in rodent control, and as Junior Refuge Manager, Malheur Lake Migratory Waterfowl Refuge. Member Alpha Zeta, National Agricultural Honor Society.

LODER, EUGENIA C., Ed.D.

DEAN OF WOMEN AND PROFESSOR OF EDUCATION

B.S., University of Washington; M.A. and Ed.D., Stanford University. Playground director, supervisor of girls physical education, elementary and high schools, Seattle and Palo Alto. Study and travel in Europe. State Director, California Division, American Association of University Women; Vice President, Palo Alto Council, P.T.A.; Teaching Assistant, School of Education, Stanford University; President, Palo Alto Board of Education.

LOOK, WALLACE C., B.S.

SENIOR LIBRARIAN

A.B. Humboldt State College; B.S., in Library Science, University of California. Graduate study, University of California. Librarian Curriculum Laboratory, University of California.

MACGINITIE, HARRY D., Ph.D.

PROFESSOR OF PHYSICAL SCIENCES

A.B., Fresno State College; Ph.D., University of California. Member of Sigma Xi, Geological Society of America, National Research Council; Associate Geologist, United States Geological Survey; Research Associate in Paleobotany, Carnegie Institution, Washington, D. C. Author: "The Trout Creek Flora of Southeastern Oregon," "Fossil Flora and Geology of the Weaverville Beds in Trinity County, California," and "A Middle Eocene Flora from the Central Sierra Nevada."

McKITTRICK, MYRTLE M., A.B.

REGISTRAR

A.B., Willamette University; graduate study, University of Washington. Experience as high school teacher, principal and secretary. Author: "Vallejo, Son of California."

MILHOUS, IVAN C., Ph.D.

PROFESSOR OF EDUCATION AND DEAN OF THE SCHOOL OF EDUCATION

A.B., Penn College; M.A., Haverford College; Ph.D., State University of Iowa. Teaching assistant in German, Penn College; High School Principal, Saint Anthony Consolidated School; Superintendent of Schools, Argyle Consolidated School, Donnellson Public Schools; instructor in Education, Iowa Wesleyan College; Graduate Assistant in Education, University of Iowa; Head, Department of Education and Psychology and Director of Teacher Training, Oregon College of Education, Monmouth, Oregon; Acting State Supervisor of Elementary Education, State of Oregon.

PALAIS, HYMAN, Ph.D.

ASSISTANT PROFESSOR OF HISTORY

A.B., M.A., Ph.D., University of California at Los Angeles. Teacher in junior and senior high schools; teaching assistant, University of California at Los Angeles; Assistant Professor, South Dakota School of Mines and Technology; Instructor in Navy V-5 Program, California Polytechnic College; Summer session faculty, Occidental College. Contributor to various historical publications. Member, Medieval Academy of America, Pi Gamma Mu, Phi Delta Kappa.

PECK, ALBERT D., A.B.

ASSISTANT IN MATHEMATICS

A.B., Chico State College; Naval Air Navigation and Instrument Flight Schools; Instructor Aviation Ground School.

PEITHMAN, ROSCOE E., M.S.

ASSISTANT PROFESSOR OF PHYSICAL SCIENCE

B.Ed., Southern Illinois Normal University; M.S., University of Illinois. Instructor, Illinois high schools; Lieutenant, U.S.N.R.; Coordinator W.T.S. Pilot Training Program, Salem, Illinois; Air Navigator; Engineering Officer, Link Celestial Navigation Trainer and Instructor in Navigation; Flight Instructor; officer in charge of Electronic Navigation, N.A.A.S., Alameda. Graduate United States Naval Air Navigation School, Hollywood, Florida, and Electronic Navigation School, N.A.A.S., Banana River, Florida.

PLATT, IMOGENE B., M.A.

ASSISTANT PROFESSOR OF BUSINESS ADMINISTRATION

A.B., M.A., University of Washington; graduate work, Stanford University. Registrar, Humboldt State Teachers College.

ROBERTS, BRUCE J., M.A.

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES

A.B., San Francisco State College; M.A., Stanford University. Teacher in elementary, junior high, and senior high schools.

SCHULER, MELVIN ALBERT, JR., M.F.A.

ASSISTANT PROFESSOR OF ART

B.A. Ed. and M.F.A. California College of Arts and Crafts. Summer of art study in Mexico. Teacher of crafts California College of Arts and Crafts, and at Oakland Y. W. C. A. Teacher of drawing and painting Berkeley Adult Evening School. Murals in Longfellow Elementary School, Berkeley; United Brethren Church, Oakland, 1947 California State Fair, Sacramento. One-man exhibits in Oakland, Yuba City, and Arcata.

SICK, AGATHE J., A.B. ASSISTANT IN PHYSICAL EDUCATION
A.B., San Diego State College; Playground Supervisor, San Diego Recreation Department.

SIMMONS, HELEN WIGHTMAN, M.A. ASSISTANT PROFESSOR OF SOCIOLOGY
A.B., University of Michigan; M.A., New York University; additional graduate study University of Michigan, Commonwealth Fellow New York School of Social Work. Visiting teacher, Kalamazoo, Michigan, and Fresno, California. Assistant Professor of Education, Fresno State College Consultant in Child Welfare, California State Department of Social Welfare. Editor, California Children, R. S. W.

TELONICHER, FRED, A.B. ASSOCIATE PROFESSOR OF BIOLOGICAL SCIENCE
A.B., Fresno State College; graduate study, Stanford University; European travel.

VAN DUZER, JOHN, M.A. ASSISTANT PROFESSOR OF SPEECH AND DRAMA
A.B., Humboldt State College; M.A., University of Southern California; Study at Eastman School of Music, Rochester, New York; graduate study, Stanford University.

WHITE, REGINALD LOUIS, Ed.D. ASSOCIATE PROFESSOR OF ENGLISH
B.A. First Class Honors in English, University of London, England; M.A., Northwestern University; Ed.D., Stanford University. Instructor in English and French Clark's College, London, England; Instructor in English Ridley College, Ontario, Canada; Director Junior High School, Country Day School, Winnetka, Illinois; Teaching fellow, Summer Workshops of the Eight-Year Study, Chicago and Denver; Instructor in English, Stephens College, Columbia, Missouri; Principal, Peninsula School, Menlo Park, California; Director, Developmental Reading Program, Stanford University; Coordinator of Education and Counseling, California State Prison at San Quentin. Author: "Walt Whitman, Educator for Democracy."

WILSON, BERT F., M.A. PROFESSOR OF BUSINESS ADMINISTRATION
B.D., B.S., M.Accts., (Iowa); Shorthand Teachers Certificate, Gregg College, Chicago; Teaching Certificate, American Institute of Filing, Buffalo, New York; M.A., Stanford University; member Stanford Chapter, Phi Delta Kappa; Graduate study, University of California, University of Southern California, and University of Washington. Principal, Shenandoah Commercial Institute, Shenandoah, Iowa; principal, California Secondary Schools; 10 years' experience as a bank cashier.

WOODCOCK, JESSIE TURNER COMPTROLLER
Graduate Humboldt State Teachers College. Postal clerk, bookkeeper.

YOUNG, PHILIP S., A.B. INSTRUCTOR IN PHYSICAL EDUCATION
A.B., Humboldt State College; graduate study, Humboldt State College.

PART-TIME INSTRUCTORS

BARLOW, KATHRYN C., M.A. ASSISTANT PROFESSOR OF SPANISH
A.B., M.A., Oberlin College; Certificate of Graduation, University of Bordeaux, France; graduate study, University of Wisconsin, University of Mexico, University of New Mexico. High school teaching in English; instructor in French and Spanish, Lincoln College and Oberlin College.

DREYER, CHARLES J., A.B. INSTRUCTOR IN INDUSTRIAL EDUCATION
A.B., University of California; California Special Credential in Vocational Arts.

GRIFFITH, ESTHER BEED INSTRUCTOR IN VIOLIN
Certificate in Theory and Violin, (4 years) Yale University School of Music. Studied violin under Richard Schlieffen, Reginald Bland, Russell Keeney, and Hugo Kortschak; studied one year in Italy with Lena Fagioli; studied string ensemble with Emmeran Stoeber. Played with New Haven, San Diego, and Chicago Women's Symphony Orchestras.

GURNEE, DUANE ASSISTANT IN MUSIC
Private study of clarinet and saxophone under Antonio Raimondi, Achille Heynen, Pierre De Leye (Brussels, Belgium, Conservatory of Music), Dr. A. Szendrei, Mickey Gillette, Ronald Phillips, Franklin Stokes, and Glenn Johnston. Professional playing experience with Columbia Broadcasting System, National Broadcasting Company, and Tommy Tucker Orchestra.

THOMPSON, WOODROW ASSISTANT IN BAND
Studied with Victor Kress of the San Francisco Symphony, Miles Serry of the Minneapolis Symphony, and Jaroslav Cimmera of Chicago. Toured with Ray Herbeck and played trombone with 438th Army Band while in service.

COLLEGE ELEMENTARY SCHOOL

HARRY E. GRIFFITH, Principal and Director of Elementary Education

HAGNE, HAZEL, A.B.

SUPERVISING TEACHER

A.B., Humboldt State College; graduate study, University of California and Columbia University.

HAYES, SUSAN W., A.B.

SUPERVISING TEACHER

A.B., Humboldt State College; additional study, Oregon State College; elementary teacher, Worthington School.

KELLENBERGER, ELEANOR, A.B.

ASSISTANT SUPERVISOR

A.B., Humboldt State College; graduate study, University of California at Los Angeles.

MELENDY, WARD, A.B.

SUPERVISING TEACHER

A.B., Humboldt State College; post graduate work, Humboldt State College. Teacher, elementary and high school; adult literacy classes; summer recreational program, City of Eureka.

TELONICHER, MARGARET

SUPERVISING TEACHER

A.B., Humboldt State College.

INDEX

- A.B. Degree (see Bachelor of Arts degree)
- Academic calendar, 4
- Academic honors (see Scholastic honors)
- Academic regulations, 27
- A cappella choir, 18
- Accounting courses, 139
- Accredited, 25
- Activities (see Extra-curricular activities)
- Administration credentials, 63
- Administrative officers, 147
- Admission to the College, 23-26
- Adolescence, Psychology of, 144
- Advanced standing (see Admission to the College)
- Advisers, 19
- Agriculture, 43
 - Agricultural Economics, 43
 - Animal Science, 43
 - Plant Science, 43
- Algebra, 39, 125
- Allied Arts, 66
- Alpha Psi Omega, 15
- Alumni Association, 21
- American Government, 142
 - Required of A.B. Degree candidates, 39
- Anatomy, 119
- Annette Parton Johnson Scholarship, 33
- Anthropology, 117
- Applied Psychology, 143
- Aptitude Test (see College Aptitude Test)
- Arcata Kiwanis Award, 36
- Arcata Rotary Club Scholarship, 33
- Art, 66
 - A.B. Degree in, 66
 - Special Secondary Credential in, 67
 - Description of courses, 68
 - Major and minor, 68
- Arts and Sciences, 65
- Associate of Arts (University of California), 42
- Associated Business Girls Award, 34
- Associated Students, 15
- Associated Women Students, 15
- Athletics, 17
- Auditors, 31
- Auditing, course in, 141
- Audio-Visual Education, 61
- Awards (see scholarships and monetary awards)
- BACHELOR of Arts degrees, 38
 - General requirements, 39
- Bacteriology course, 117
- Band, 83
- Biology courses, 118
 - Major, 114
 - Minor, 116
- Board of Control of Student Body, 15
- Bookstore, 15
- Botany courses, 115
 - Major, 114
 - Minor, 116
- Breeding pens, 10
- Buildings, 10, 11
- Business Administration
 - A.B. Degree, in, 130
 - Description of courses, 137
 - Major, 130
 - Minor, 132
- Business and Professional Women's loan, 37
- Business education curriculum, 131
- CALENDAR 1948-49, 3
 - Academic calendar, 4
 - California, history of, 135
 - California Congress of Parents and Teachers Scholarship, 35
 - Chemistry, 122
 - Chi Sigma Epsilon, 15, 33, 34, 36
 - Community Relations, 21
 - Community Service, 21
 - Cost Accounting, 140
 - Counseling, 19
 - Course numbering, 49
 - Course of Instruction, 49
 - (See also listing in Table of Contents)
 - Explanatory note, 49
 - Craig scholarships, 34
 - Creative writing award, 36
 - Credentials, 38, 52-59, 63, 65, 71, 79, 85, 92, 103, 112, 127
 - Administration and supervision, 63
 - Combinations of, 57
 - Elementary, curriculum for, 55
 - General requirements, 53
 - General statement, 52
 - Junior high school, curriculum for, 57
 - Kindergarten-Primary, curriculum for, 56
 - Residence requirement, 39, 53
 - Secondary General, 53, 58, 85, 93, 103, 112, 127
 - Special Secondary in
 - Art, 67
 - Home Economics, 71
 - Music, 79
 - Physical Education, 93
- Curricula, 37
 - Degree, 37
 - Lower Division, 42-65, 71, 93, 120
- DEANS of
 - Arts and Sciences, 65
 - Education, 52
- Degree curricula classified, 38
 - Bachelor of Arts, 38
 - Art, 66
 - Biological Sciences, 112
 - Botany, 116
 - Business Administration, 130
 - Economics, 130
 - Education, 52-64
 - English, 103
 - General requirements for, 39
 - Group major, 145
 - History, 129
 - Home Economics, 71
 - Music, 79
 - Physical Education, 92
 - Pre-Medical Sciences, 114
 - Social Sciences, 127
 - Social Service, 129
 - Speech, 85
 - Speech-English, 85, 86
 - Speech and Dramatics, 87
 - Speech-Radio, 86
 - Wildlife Management, 115
 - Zoology, 114
- Degrees (see Bachelor of Arts, degree curricula)
- Divisions, 49
 - Fine and Applied Arts, 65
 - Health and Physical Education, 92
 - Language and Literature, 103
 - Natural Sciences, 112
 - Social Sciences, 127

- Divisional chairman, 147
- Directory of personnel, 147
- Disqualification from College, 30
- Drafting, 75
- Dormitory, 10, 12, 13, 14
- Dramatics (see Speech and Dramatics)
 - Dramatic activities, 18
 - Dramatic workshop, 18, 88
 - Dramatics fraternity (see Alpha Psi Omega)
- ECONOMICS
 - A.B. Degree in Economics, 130
 - Description of courses, 136
 - Major, 130, 131
 - Minor, 132
 - Education, 52-64
 - Description of courses, 60
 - (See also Credentials)
 - Electronics, 123
 - Elementary Credential (see Credentials)
 - Employment service, 32
 - (See also Placement service)
 - Engineering: courses, 123
 - English, 103
 - A.B. Degree in, 103, 104
 - Description of courses, 106
 - Major, 103, 104
 - Minor, 106
 - Enrollment in classes (see Class enrollment)
 - In the college (see Registration)
 - Executive Committee of Student Body, 15
 - Expenses (see Living accommodations, Fees)
 - Extension courses, 21
 - Extension credit, 29-30, 64
- FACULTY committees, 148
- Faculty personnel, 149
- Faculty Women's gift, 36
- Far Western Conference, 17
- Fees: occasional, required, student body, summer session, 31, 32
- Fine and Applied Arts, 65
- Fish hatchery, 10
- Foreign languages (see Modern languages)
- French, 110
 - Description of courses, 110
 - Minor, 110
- Freshmen Assemblies, 4-5
- Fundamentals: Teacher Training, 53
- GI Wives Club, 15
- General major (see Group major)
- General Regulations (see Academic Regulations)
- General Secondary Credentials (see Credentials, Secondary)
- Geography courses, 141
- Geology course, 123
- Geometry (Plane), 39, 125
- Glaser, Bell W., Scholarship, 34
- Glee clubs (see College Chorus)
- Grades, 27
- Graduate Nurses, 100
- Graduation honors, 33
- Graduation requirements (see Bachelor of Arts, Bachelor of Education)
- Group major, 66, 145
- Gymnasium, 10
- HATCHERY (see Fish hatchery)
- Health and Hygiene, 100
 - Description of courses, 102
 - Junior high school major, 101
 - Minor, 101
- Health examination, 19, 53
- Service, 19
- Henry F. Brizard Memorial Scholarships, 34, 35
- Hispanic America, course in, 134
- History, 129, 133
 - A.B. Degree in, 129
- Description of courses, 133
 - Junior high school major, 131
 - Minor, 132
- Home Economics, 71
 - A.B. Degree in, 71
 - Description of courses, 72
 - Junior high school major, 72
 - Minor, 72
 - Special Secondary Credentials in, 71
- Honor points, 28
- Honors (see Scholastic honors)
- Hospitalization, 19, 31
- Housing, 14
- Humboldt County Federation of Women's Clubs scholarships, 35
- Humboldt State College Improvement Association, 147
- Humboldt State Ski Club, 15
- Hygiene (see Health and Hygiene)
- INDEX of Scholarship (see Scholarship index)
- Industrial Education, 75
 - Description of courses, 76
 - Junior high school major, 76
 - Minor, 76
- International Relations, 142
- Intramural Sports, 17
- Iowa Silent Reading Test, 4, 5
- JOHNSON, Annette Parton Scholarship, 33
- Journalism, 105, 109
- Junior High School Credential (see Credentials)
- Junior High School majors
 - Art, 68
 - Home Economics, 72
 - Industrial Education, 76
 - Music, 80
 - Speech and Dramatics, 87
 - Physical Education, 95
 - Health and Hygiene, 101
 - English, 105
 - Biology, 116
 - Economics, 131
 - History, 131
 - Social Sciences, 131
- KINDERGARTEN-Primary Credential (see Credentials)
- Kiwanis Club Award (see Arcata Kiwanis Club Award)
- Kramer Memorial Scholarship, 35
- Kuder Vocational Preference Test, 4, 5
- LANGUAGES (see Modern Languages)
- Language and Literature, Division of, 103
- Latin-American Relations, 142
- Legal Aspects of Education, 60
- Library, 11
- Librarianship, 45
- Living accommodations, 14
- Loan funds, 36
- Location of the College, 10
- Lower division courses, 42, 49
- Lower division curricula (see Curricula)
 - Agriculture, 43
 - Business Education, 131
 - Drafting, 75
 - Journalism, 105
 - Photography, 67
 - Pre-Agriculture, 43
 - Pre-Architecture, 44
 - Pre-Dental, 44
 - Pre-Engineering, 44
 - Pre-Forestry, 45
 - Pre-Legal, 45
 - Pre-Library Science, 45
 - Pre-Mortuary Science, 46
 - Pre-Nursing, 101
 - Pre-Optometry, 46
 - Pre-Pharmacy, 46
 - Pre-Veterinary, 47
 - Recreational Leadership, 94
 - Secretarial Training, 132
 - "Lumberjack," 16

MAHAN Scholarships, 35
 Majors, defined and listed, 40
 Marking system, 27
 Mathematics, 125
 Description of courses, 125
 Minor, 125
 Matriculation from high school
 (see Admission to the College)
 To other institutions (see Transfer to
 other institutions)
 Men's Athletics, 17
 Meteorology course, 123
 Military Service, credit for, 24
 Minors, defined and listed, 40, 41
 Miscellaneous Awards, 36
 Modern Dance Group, 15
 Modern languages, 110
 Description of courses, 110
 Minors, 110
 Mu Epsilon Psi, 16
 Music, 79
 A.B. Degree in, 79
 Activities, 18, 83
 Description of courses, 76
 Majors, 79, 80
 Minors, 81
 Private Lessons, 84
 Scholarships, 34, 35
 Special Secondary Credential in, 79
 Musical organizations, 83
 A cappella choir, 84
 Band, 83
 College chorus, 83
 Orchestra, 83
 Musicians' Union Scholarship, 35

 NATURAL sciences, 112
 Nelson Hall, 11, 12, 14
 Newman Club, 16
 Normal program, 28
 Note to prospective student, 8-9
 Numbering of courses (see Explanatory
 note)
 Nursing (see Pre-Nursing and Graduate
 Nurses)
 Nutrition, courses in, 73

 OBJECTIVES, 52, 65, 92, 103, 112, 127
 Officers and assistants, 147
 Official directory (see Directory of
 Personnel)
 Ohio Psychological Examination, 4, 15
 Orchestra, 83
 Orientation, 64
 Organization of College, 48

 P. T. A. Scholarships, 35
 Paleontology course, 119
 Personnel (see Directory of Personnel)
 Phi Beta Kappa medal, 36
 Philosophy course, 141
 Photography courses, 69
 Two-year terminal curriculum, 67
 Physical Education, 92
 A.B. Degree in, 93
 Club, 16
 Description of courses, 95
 Major, 95
 Minor, 95
 Physical education credential (see
 Credentials)
 Physical examination (see Health
 Examination)
 Physical science courses, 122
 Physics courses, 123
 Physiology course, 119
 Placement service, 21
 Play Writing, 88, 90
 Political science courses, 142
 Practice teaching (see Student teaching)
 Pre-Professional courses (see Lower
 Division Curricula)
 Pre-Medical Curriculum, 114
 Pre-Nursing Program, 101

Pre-Nursing Scholarship, 101
 Private lessons (music), 84
 Probation, 30
 Program, Changes of, 29
 (See also Normal program)
 Psychology courses, 143
 Public Health Certificate, 101
 Publications, Student, 16

 QUANTITATIVE Analysis course, 122
 Quota Club Scholarship, 35

 RADIO
 A.B. Degree in, 86
 Courses, 88
 Programs, 18, 19
 Recreation, 16-18
 Recreational Leadership, 94
 Redwood Hall, 14
 Refunds, 21
 Registration in classes (see Class
 enrollment)
 In the College, 26
 Regulations (see Academic regulations)
 Reports to students, 29
 Residence requirements, 39, 53, 64
 Rho Sigma, 16, 33
 Rotary Club loan fund, 36
 Rotary Club Scholarship, 33

 SCHEDULE of classes, 50
 Scholarship index, 28
 For credential candidates, 54
 For degree candidates, 41
 For students transferring to Humboldt,
 24
 (See also Probation and
 Disqualification)
 Scholarship reports (see Reports to
 students)
 Scholarships and monetary awards, 33
 Scholastic honors, 33
 Science (see Natural sciences)
 Secondary Credential (see General
 Secondary Credential)
 Secretarial Training curriculum, 132
 Self help (see Student employment
 service)
 Semester honors, 28
 Semester unit (see Unit of credit)
 "Sempervirens," 16
 Sequoia Music Club Loans, 36
 Ski club (see Humboldt State Ski Club)
 Social-Economic Reform Movements
 course, 136
 Social life, 16
 Social Sciences, 127
 A.B. Degrees in, 127-130
 Description of courses, 133
 Majors, 127-131
 Minors, 132
 Social Service Curriculum, 129
 Societies, 15, 16
 Sociology Courses, 144
 South Fork P. T. A. Scholarship, 35
 Spanish courses, Minor in, 110
 Special Secondary Credentials in Art, 67
 Home Economics, 71
 Music, 79
 Physical Education, 93
 Speech Correction, 63, 85
 Speech and Dramatics, 85
 A.B. Degrees in, 85-87
 Description of courses, 87
 Majors, 85-87
 Minors, 87
 Speech-English, 85
 A.B. Degree in, 85
 Speech-Radio, 86
 A.B. Degree in, 86
 Speech Clinic, 88
 Speech Correction, 91
 Sports (see Athletics and Recreation)
 State Board of Education, 146

- Student activities (see Clubs and societies, Athletics)
- Government, 15
- Life, 14-20
- Programs (see Normal program)
- Student body fees, 31
- Student Body Government, 15
- Student organizations (see Clubs and societies)
- Student Teachers Club, 16
- Student Teaching, 62
- Subject A, 25
- Summary of expenses, 32
- Summer session, 26, 31
- Supervision Credential, 63
- TABLE of Contents, 6-7
- Testing Program, 19
- Transfer to other institutions, 25
- Trustees, 12
- UNIT of credit, 27
- Upper division courses, 49
- U. S. History, 133, 134
 - Required of all Degree Candidates, 39
- VETERANS, 20
- Veterans' Administration, 20
- Veterans' Educational Institute, 23
- Vocational Rehabilitation, 35
- WILDLIFE management courses, 115
 - A.B. Degree in, 120
- Withdrawal from college, 29
 - From courses, 29
- Women's Athletic Association, 16
- Women's Athletics (see Intramural sports)
- YEAR book (see "Sempervirens")
- Year course, 49
- ZETA Eta Scholarship, 36
- Zoology courses, 114
 - Major in, 114
 - Minor, 117



CIRCULAR OF INFORMATION

FOR THE YEAR 1949-50

HUMBOLDT STATE COLLEGE

A FOUR-YEAR COLLEGE

ACCREDITED BY THE NORTHWEST ASSOCIATION OF SECONDARY AND HIGHER SCHOOLS,
THE UNIVERSITY OF CALIFORNIA, AND THE STATE DEPARTMENT OF EDUCATION

STATE COLLEGES OF CALIFORNIA

California Polytechnic.....	San Luis Obispo
Chico State College.....	Chico
Fresno State College.....	Fresno
Humboldt State College.....	Arcata
Los Angeles State College.....	Los Angeles
Sacramento State College.....	Sacramento
San Diego State College.....	San Diego
San Francisco State College.....	San Francisco
San Jose State College.....	San Jose

Vol. XXXIV, No. 2

JUNE 1, 1949

THE LIBRARY OF THE
SEP 14 1949
UNIVERSITY OF ILLINOIS



ADMINISTRATION BUILDING

1949

JULY

S	M	T	W	T	F	S
--	3	4	5	6	7	1
10	11	12	13	14	15	8
17	18	19	20	21	22	9
24	25	26	27	28	29	16
31	--	--	--	--	--	30

AUGUST

S	M	T	W	T	F	S
--	7	8	9	10	11	12
14	15	16	17	18	19	13
21	22	23	24	25	26	20
28	29	30	31	--	--	27
--	--	--	--	--	--	--

SEPTEMBER

S	M	T	W	T	F	S
--	4	5	6	7	8	1
11	12	13	14	15	16	2
18	19	20	21	22	23	9
25	26	27	28	29	30	10
--	--	--	--	--	--	17

OCTOBER

S	M	T	W	T	F	S
--	2	3	4	5	6	1
9	10	11	12	13	14	8
16	17	18	19	20	21	15
23	24	25	26	27	28	22
30	31	--	--	--	--	29

NOVEMBER

T	M	T	W	T	F	S
--	--	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	--	--	--

DECEMBER

T	M	T	W	T	F	S
--	--	--	--	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1950

JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	--	--	--	--

FEBRUARY

S	M	T	W	T	F	S
--	5	6	7	8	9	1
12	13	14	15	16	17	2
19	20	21	22	23	24	3
26	27	28	--	--	--	4
--	--	--	--	--	--	11

MARCH

S	M	T	W	T	F	S
--	5	6	7	8	9	1
12	13	14	15	16	17	2
19	20	21	22	23	24	3
26	27	28	29	30	31	4
--	--	--	--	--	--	11

APRIL

S	M	T	W	T	F	S
--	9	10	11	12	13	1
16	17	18	19	20	21	8
23	24	25	26	27	28	15
30	--	--	--	--	--	22
--	--	--	--	--	--	29

MAY

T	M	T	W	T	F	S
--	7	8	9	10	11	1
14	15	16	17	18	19	2
21	22	23	24	25	26	3
28	29	30	31	--	--	4
--	--	--	--	--	--	11

JUNE

T	M	T	W	T	F	S
--	4	5	6	7	8	1
11	12	13	14	15	16	2
18	19	20	21	22	23	3
25	26	27	28	29	30	4
--	--	--	--	--	--	11

JULY

S	M	T	W	T	F	S
--	--	--	--	--	--	1
9	10	11	12	13	14	8
16	17	18	19	20	21	15
23	24	25	26	27	28	22
30	31	--	--	--	--	29

AUGUST

S	M	T	W	T	F	S
--	6	7	8	9	10	1
13	14	15	16	17	18	2
20	21	22	23	24	25	3
27	28	29	30	31	--	4
--	--	--	--	--	--	11

SEPTEMBER

S	M	T	W	T	F	S
--	3	4	5	6	7	1
10	11	12	13	14	15	2
17	18	19	20	21	22	9
24	25	26	27	28	29	16
--	--	--	--	--	--	23

OCTOBER

S	M	T	W	T	F	S
--	1	2	3	4	5	1
8	9	10	11	12	13	2
15	16	17	18	19	20	9
22	23	24	25	26	27	16
29	30	31	--	--	--	23

NOVEMBER

S	M	T	W	T	F	S
--	5	6	7	8	9	1
12	13	14	15	16	17	2
19	20	21	22	23	24	9
26	27	28	29	30	--	16
--	--	--	--	--	--	23

DECEMBER

S	M	T	W	T	F	S
--	--	--	--	--	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

ACADEMIC CALENDAR—1949-50

FALL SEMESTER, 1949

September 1st -----	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.	
Orientation and Personnel Tests----- (Entering Freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on September 12th in the College Auditorium.)	Monday and Tuesday, September 12th and 13th	
Pre-programming ----- (Entering Freshmen and other new students.)	Wednesday, September 14th	
Registration Period-----	Thursday and Friday, September 15th and 16th	
	<i>Thursday</i>	<i>Friday</i>
9.00 - 10.30 Surnames beginning with	A or B	M - N
10.30 - 12.00 Surnames beginning with	C - E	O - R
1.00 - 2.30 Surnames beginning with	F - H	S - U
2.30 - 4.00 Surnames beginning with	I - L	A - Z
Instruction Begins-----	Monday, September 19th	
Last Day for Program Changes-----	Friday, October 14th	
Last Day for Filing Applications for Degrees and/or Credentials-----	Friday, October 14th	
Mid-term Warning Notices-----	Thursday, November 10th	
Armistice Day-----	Friday, November 11th	
Thanksgiving Holidays-----	Thursday, November 24th—Sunday, November 27th	
Christmas Holidays-----	Saturday, December 17th through January 2d	
Semester Examinations-----	Monday, January 23d through Friday, January 27th	

NOTE: No new student will be permitted to register unless his transcripts are on file in proper order and until he has taken the personnel tests scheduled above. Students who fail to take the tests and register at the appointed time will be assessed penalty fees totaling \$4 for late registration and testing service.

SPRING SEMESTER, 1950

January 15th -----	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.		
Orientation and Personnel Tests----- (Entering Freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on February 1st in the College Auditorium.)	Wednesday and Thursday, February 1st and 2d		
Pre-programming ----- (Entering Freshmen and other new students)	Friday, February 3d		
Registration Period -----	Monday and Tuesday, February 6th and 7th		
	<i>Monday</i>	<i>Tuesday</i>	
9.00 - 10.30 Surnames beginning with	A or B	M - N	
10.30 - 12.00 Surnames beginning with	C - E	O - R	
1.00 - 2.30 Surnames beginning with	F - H	S - U	
2.30 - 4.00 Surnames beginning with	I - L	A - Z	
Instruction Begins-----	Wednesday, February 8th		
Last Day for Program Changes-----	Friday, March 10th		
Mid-term Warning Notices-----	Friday, March 31st		
Easter Holidays-----	Saturday, April 1st through Sunday, April 9th		
Memorial Day-----	Tuesday, May 30th		
Semester Examinations-----	Monday, June 5th through Friday, June 9th		
Commencement -----	Monday, June 5th		

SUMMER SESSION, 1950

(Tentative Dates)
June 19th—July 28th

POST SESSION

July 31st—August 25th

TABLE OF CONTENTS

CALENDARS	Page
July, 1949-December, 1950	3
Academic	4
TABLE OF CONTENTS	6
NOTE TO THE PROSPECTIVE STUDENT	
A Word about the College	8
A Word about this Catalog	8
THE COLLEGE	
Location	10
Physical Equipment	10
Historical Note	11
STUDENT LIFE	
Living Accommodations	14
Student Organizations	15
Publications	16
Social Life	16
Athletics and Recreation	16
Music	17
Drama	18
Radio	18
Counseling and Guidance	19
Health Service	19
Veterans' Service	20
COMMUNITY RELATIONS	
Placement Service	21
Community Service	21
Extension Courses	21
The Alumni Association	21
ADMISSION TO THE COLLEGE	
Requirements for Admission	23
Admission with Advanced Standing	24
Admission to the Graduate Division	24
Transfer to Other Institutions	25
Subject A	25
College Aptitude Test	25
Registration	26
Summer Session	26
ACADEMIC REGULATIONS	
Unit of Credit	27
Classification of Students	27
Marking System	27
Normal Program	28
Class Enrollment and Attendance	28
Changes of Program	29
Withdrawal from College	29
Reports to Students	29
Credit by Extension	29
Probation and Disqualification	30
FEEES AND EXPENSES	
Fees	31
Refunds	32
Summary of Expenses for Regular Students	32
Student Employment Service	32

TABLE OF CONTENTS—Continued

HONORS, SCHOLARSHIPS AND LOANS		Page
Scholastic Honors		33
Honor Societies		33
Scholarships		33
Miscellaneous Awards		36
Loan Funds		36
 DEGREES, CREDENTIALS AND CURRICULA		
General Statement		38
Requirements for Bachelor's Degrees		39
Lower Division Curricula		42
 COURSES OF INSTRUCTION		
Organization of the College		48
Explanatory Note		49
School of Education		52
School of Arts and Sciences		64
Division of Fine and Applied Arts		64
Art		65
Home Economics		70
Industrial Education		73
Music		77
Speech		83
Division of Health and Physical Education		90
Physical Education		90
Health and Hygiene		98
Division of Language and Literature		101
English		101
Journalism		106
Modern Languages		107
Division of Natural Sciences		109
Biological Sciences		114
Physical Sciences		119
Mathematics		121
Division of Social Sciences		124
History		132
Economics		135
Business Administration		136
Geography		140
Philosophy		140
Political Science		141
Psychology		142
Sociology		143
Group Major		145
 DIRECTORY OF PERSONNEL		 146
 INDEX		 155

NOTE TO THE PROSPECTIVE STUDENT

A WORD ABOUT THE COLLEGE

Humboldt State College offers the prospective student several advantages and attractions. It is a five-year college, whose courses are organized to meet a variety of educational needs. The basic studies in the liberal arts and sciences afford an opportunity for a cultural education. With some degree of specialization, these courses provide professional training in teaching, social service, business administration, and other fields. Also, they provide the background work which is required for many more highly specialized professions such as medicine, dentistry, or engineering.

The College also offers practical training programs in secretarial work, wildlife management, fisheries, radio production, and other vocational fields.

Besides these educational facilities, the College affords a congenial dormitory life, an activity program (music, athletics, dramatics), in which all are encouraged to participate, and a natural environment that is unexcelled for scenery and opportunity for outdoor life. And lastly, though not least, the friendliness of the students, and the cordial relationship existing between faculty and students are factors that promote the happy adjustment of the new student.

In cooperation with federal and state agencies, Humboldt State College offers to veterans of World War II an opportunity to pursue an educational program under highly favorable circumstances. Those eligible to receive government aid should consult representatives of the Veterans Bureau and the college authorities regarding enrollment.

A WORD ABOUT THIS CATALOG

This catalog is your introduction to the purposes and work of Humboldt State College. In it we have sought to put all the information necessary for an understanding of the offerings of the College, its organization, and the way in which it functions. Careful study of it will enable you to follow the curricular requirements and regulations with a minimum of personal assistance.

Acquaintance with some matters may well be postponed until after you have become well established in the College, but you should familiarize yourself with certain parts of this catalog as soon as you have decided to enter the College, namely:

(1) *How you enter the College.* The requirements and procedure for matriculation in the College are explained in the section entitled "Admission to the College." The procedure for enrolling in classes is specified under "Academic Regulations."

(2) *College rules and regulations.* The rules and regulations applying to all students are found in the section "Academic Regulations." All students are held responsible for a knowledge of them. Those requirements referring to particular curricula are found under "Degrees, Credentials, and Curricula."

(3) *Your course of study.* You will find the various curricula outlined under "Degrees, Credentials, and Curricula." Detailed information is given under the various divisions in the section "Courses of Instruction." A system of cross references to pages in both sections should enable you to find your information readily. The explanatory note at the beginning of the section "Courses of Instruction" is called to your attention.

(4) *Your expenses.* Expenses and fees charged by the College and the student body are listed under "Fees and Expenses." They are payable at the time of registration (except in the case of veterans registering under a government program). Living arrangements are discussed under "Student Life." In the next section, you will also find information regarding scholarships and loans that are available; directions for seeking employment are given under "Fees and Expenses."

If you have questions, please feel free to communicate with the Registrar of the College or, if you can, visit us personally.

Meanwhile, we invite you to come to Humboldt and hope we can welcome you here when the new semester opens.

THE PRESIDENT AND FACULTY OF HUMBOLDT STATE COLLEGE

THE COLLEGE

LOCATION

Humboldt State College is located in the town of Arcata, which is situated on the north shore of Humboldt Bay in Northern California. Backed by high, forested hills, the College occupies a conspicuous position on the top of a hill, about a mile from the center of town. It commands an unrestricted panorama of forested mountains, bay, dairy and farm lands, sand dunes, Pacific Ocean, and at night the lights of Arcata, Eureka, and Samoa.

Arcata, the first town to be established in northwestern California, is located on the famous Redwood Highway eight miles north of Eureka and 300 miles north of San Francisco. It is reached by the Northwestern Pacific Railroad, Pacific Greyhound Lines, and by Southwest and United Air Lines. It has a population of over 3,800. Lumbering, box manufacturing, and dairying form the basis of the business life of the community. Eureka nearby is a thriving city of about 20,000 people. It is the county seat of Humboldt County and is the site of a woolen mill and several lumber mills. About 50 miles south of Eureka is Cape Mendocino, the westernmost point of the mainland of California. Humboldt State College holds the distinction of being the college farthest west in the United States.

The climate of the Humboldt Bay region, though moist, is stimulating and equable, the extremes of heat and cold being absent. Summer and fall are particularly delightful seasons.

PHYSICAL EQUIPMENT

Campus and Buildings

The physical plant of the College comprises a compact group of buildings and athletic facilities, appropriately landscaped. The main building, a rectangular two-story structure surrounding an inner court, houses the administrative offices, faculty offices, classrooms, library, social unit, and auditorium. Adjacent to the main building are the original normal school buildings, used today for a variety of purposes. In the rear are a modern gymnasium and stadium, with turf playing field and facilities for football, baseball, and track.

Back of the athletic field and gymnasium, the College owns a large tract of second-growth redwood forest, in which have been cut a number of trails and clearings for purposes of recreation and botanical study.

In front, across the street from the main building, are four tennis courts for the use of the students and faculty. A radio studio, a small greenhouse, a fish hatchery, and game-bird breeding pens have been provided for specialized class projects.

Campus housing includes Nelson Hall, a modern dormitory for women; Varsity Hall and Redwood Hall, for men students, and Humboldt Village, where married veterans are accommodated.

A number of pre-fabricated buildings have been erected on the campus to provide temporary facilities for laboratories, classrooms, offices and student activities.

Library

The library, situated off the south end of the inner court, contains some twenty-five thousand volumes. Though not large, this collection is well distributed as to subject matter, including recreational reading, and is constantly being enlarged. About two hundred eighty periodicals are received, almost two-thirds of which are scientific and professional and the rest of general interest. To supplement its holdings, the library draws upon the collection of the California State Library, the University of California Library and other research libraries with which inter-library loan service is maintained. The library needs of the College are thus adequately met.

College Elementary School

The College maintains an elementary school on the campus, a short distance from the main building. It is here, as well as in the schools of Eureka and Arcata, through the cooperation of their school authorities, that the student teaching by the teaching credential candidates is conducted.

The College Elementary School extends from the kindergarten through the eighth grade and is housed in a commodious and modern building of reinforced concrete. Fenced-in playfields are provided for the demonstration of a modern program of physical education.

Building Program

An extensive building program has been approved and construction is expected to begin as soon as materials are available upon a new industrial arts building, a science, and a library building, which are the units first scheduled for construction. An auditorium, a women's gymnasium, swimming pool, an administration building and a vocational arts building are tentatively approved for future construction, and additional property adjacent to the campus is being purchased by the State to provide for the planned expansion of the College. Funds have also been apportioned for the construction of dormitory buildings to house approximately two hundred students. Temporarily, the Federal Government has allocated housing units and other facilities to better enable the College to meet the demands of the present emergency.

HISTORICAL NOTE

Humboldt State College is one of the nine California state colleges, which have developed out of the old state normal schools. The original Humboldt State Normal School was established in 1913 by an act of the Legislature. Actual instruction began on April 6, 1914, the first class sessions being held in the Arcata Grammar School under an agreement between the Board of Education of Arcata and the normal school authorities.

The fine site of the College was donated by William A. Preston and the Union Water Company, whose officers were Noah H. Falk, Len

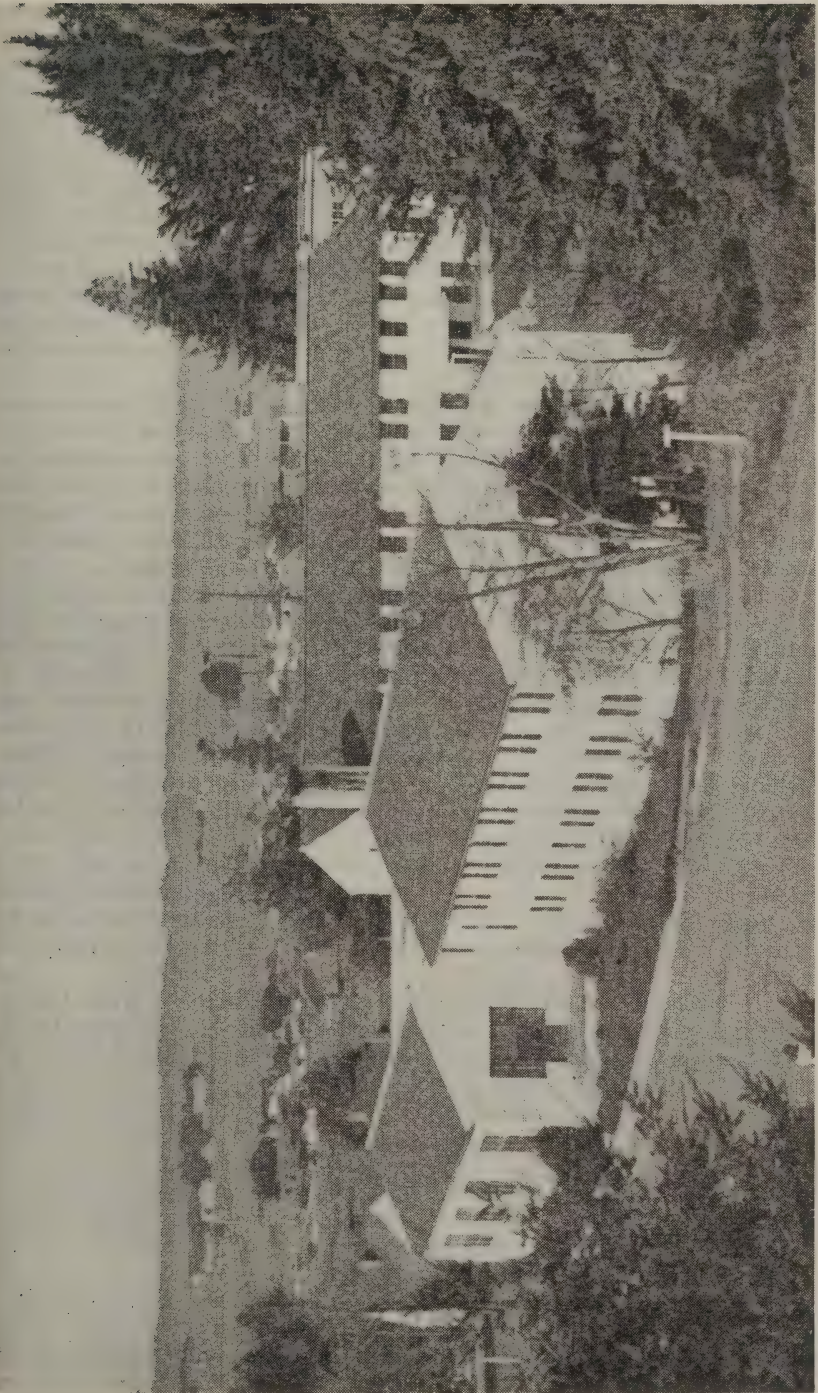
Yocom, Mrs. Arthur Way, and Mrs. Kate Harpst. By January, 1915, temporary wooden buildings were constructed and ready for occupancy. In 1917 the Legislature appropriated \$245,000 for the permanent main building, which has been in use since February, 1922. A \$70,000 gymnasium was added in 1930 and the four tennis courts and the College Elementary School in 1933. In 1941, Nelson Hall, a dormitory for women, was erected at a cost of \$195,000. This building was named for Hon. Hans Nelson of Eureka, who introduced the original bill in the Legislature for the establishment of the College.

The professional curriculum in teacher training originally required two years to complete. Gradually it was extended and broadened to include many of the liberal arts and the sciences, so that today at least four years must be spent to complete any teaching credential curriculum offered by the College.

Control of the institution was first vested in a local board of trustees, appointed by the Governor. The members of this first governing board of trustees were: E. W. Haight, Fortuna; Rease M. Wiley, Arcata; Charlotte Gale, Arcata; Henry J. Bridges, Eureka; and Dr. W. E. Cook, Eureka. In 1921 control was transferred to the State Department of Education and the College placed in the hands of the Director of Education and the State Board of Education. The Legislature at the same time changed all of the normal schools to State Teachers Colleges, and authorized the State Board of Education to grant the Bachelor of Arts Degree in Education. In 1935 the Legislature changed the name to Humboldt State College and authorized the granting by the College of the Bachelor of Arts Degree in the Liberal Arts. Thus the College now functions as a teacher training institution and as a regional, liberal arts college.

In 1947, the College received authorization to grant the General Secondary Credential. This authorization entailed a year of graduate study, so that the institution thus became a five-year college.

In 1949, the Bachelor of Science Degree was authorized, since it was better adapted to certain highly specialized curricula.



NELSON HALL, RESIDENCE HALL FOR WOMEN, AND DINING COMMONS

STUDENT LIFE

LIVING ACCOMMODATIONS

Living quarters for students in attendance at the College are available in the college dormitories, Nelson Hall for women, Redwood Hall and Varsity Hall for men, which are operated under the supervision of the Dean of Students. Nelson Hall is a beautiful modern building accommodating over 100 women and includes the spacious dining commons and lounge. Redwood Hall houses 70 men comfortably and pleasantly. Varsity Hall has a capacity of 24, and is conveniently near the main college building.

Two or three students are assigned to each room, with reasonable rental rates. Bedding and towels and their laundering are provided by the dormitory. Students residing in all campus housing are required to purchase a monthly meal ticket for the dining commons at a reasonable rate; allowance is made for regular absences over week-ends and vacation periods. Other students not residing in college houses, faculty, and their guests are privileged to obtain meals at Nelson Hall Commons.

The semester rate for students planning to live in the college dormitories has been tentatively set at \$55 per student per semester. This amount is payable during registration. Students may arrange with the Comptroller to pay this amount in three payments.

The dormitories will open for the fall semester Sunday noon, September 11, 1949, and will close on Saturday, December 17, 1949, at noon, for the Christmas holidays, and reopen Monday noon, January 2, 1950. During the Easter vacation, the dormitories will close Saturday noon, April 1, 1950, and reopen Sunday, April 9, 1950, and will close Saturday noon, June 10, 1950, for summer vacation.

All lower division women students who do not commute daily to the college are expected to live in Nelson Hall, unless special arrangements are made by the parents with the Dean of Women. It is advisable for upper division women to live in the dormitory if they are away from home.

Thirty housing units have been allocated to Humboldt State College for married veterans. These units comprise Humboldt Village, situated on the campus at a convenient distance from the central buildings and are available at reasonable rental rates.

Application for admission to the dormitories and to Humboldt Village should be made through the Office of the Dean of Students. New students at Humboldt State College, who are not known personally by the faculty, must accompany their housing application by two letters recommending the applicant's character and integrity. These letters may be from teachers or friends who have a personal acquaintance with the applicant.

Because of existing conditions, it is difficult to find accommodations for room and board in the community. However, if a room or apartment is desired, the student should consult the Dean of Students well in advance of the opening of the semester.

STUDENT ORGANIZATIONS

A number of student activities are carried on in the College in the form both of student organizations and of certain activities such as athletics, dramatics, and music, for which college credit is given. The administration is convinced of the value to all students of participation in a reasonable number of these activities.

Student Body Government

In keeping with the democratic tradition in American education the College administration encourages student body government as a means by which the students may acquire an appreciation of and practical experience in the art of self-government. It is expected that such government will develop leadership and a sense of responsibility among the students. However, the faculty retains authority and supervision over certain matters, such as student body finances and relations with individuals or groups outside the College where sound financial practice, legal responsibilities, and the best interests of the students make it advisable.

The organization of the students, known officially as the Associated Students, consists of four officers—President, Vice President, Secretary, Treasurer—a Board of Control, and an Executive Council. The student body officers are elected annually in the spring. The Board of Control composed of the Vice President of the Associated Students as ex-officio chairman, three women, and three men elected along with the student body officers, is charged with the responsibility of maintaining high standards of conduct around the College. The Executive Council consists of the four elected student body officers, the members of the Board of Control, and a faculty sponsor appointed by the President of the College. Its duties are to hold student body elections, set student body dues, approve and adjust the budget, authorize purchases and the payment of bills, inventory school property at the end of the school year, and oversee student body affairs in general.

Student body membership is prerequisite to participation in any extra-curricular activity sponsored by the Associated Students.

Student Cooperative Store

For the convenience of the students, the student body maintains a cooperative store where college textbooks and supplies may be obtained at cost. It is equipped with a soda fountain and facilities for serving meals.

Clubs and Societies

To recognize scholastic achievement, encourage particular interests, and afford recreation, the students have established a number of organizations, which are authorized by and coordinated through the Associated Students. Among these organizations are the following:

- Alpha Psi Omega (a National dramatics fraternity)
- Associated Women Students
- Chi Sigma Epsilon (local scholastic honor society)
- The College "Y"
- G. I. Wives Club
- Home Economics Club

Humboldt State College Ski Club
Men's Association
Modern Dance Group
Mu Epsilon Psi (music club)
Newman Club
Physical Education Club
Residence Hall Groups
Rho Sigma (sophomore honor society)
Student Teachers' Club
Women's Athletic Association

In addition, the freshmen, sophomore, junior, and senior classes are organized and select their faculty sponsors early in the fall semester.

PUBLICATIONS

A weekly college newspaper, the *Lumberjack*, is published by the Associated Students.

The student yearbook, *Sempervirens*, is usually published in the spring.

SOCIAL LIFE

The social atmosphere of Humboldt State College is highly congenial and informal, contributing both to the enjoyment of the students and to the development of social poise and the appreciation of the arts of gracious living. Dormitory life and the friendly relationships between faculty and students are factors that help to promote a well-rounded social program.

Many college dances are given throughout the college year sponsored by student organizations, housing units, and the Student Body. Freshman Week a dance and other informal social get-togethers are held to acquaint the students with each other, and throughout the year there are formal dances; teas; two fashion shows, sponsored by the Associated Women; and numerous social affairs sponsored by the various student organizations.

ATHLETICS AND RECREATION

Intramural Sports

To promote recreation and physical development, the Division of Health and Physical Education conducts a program of intramural sports.

For the women, a full program of intramural sports is conducted under the sponsorship of the Women's Athletic Association. The school year is divided into three seasons, fall, winter, and spring, and a field week of final tournaments is held during the last week of each season. The field week dinner for all new members concludes the events of the week. Activities offered during the year include hockey, basketball, softball, volleyball, tennis, archery, badminton, and an outing club. The Women's Athletic Association in conjunction with the department of Physical Education for Women sponsors a play day at the College for the girls in all the high schools in Mendocino, Humboldt, and Del Norte Counties.

For the men, intramural activities are supervised by the Intramural Board, competition being organized in basketball, volleyball, tennis, and golf. Leagues are organized throughout the county to provide additional

opportunities for stimulating competition. Boxing teams from the College participate in all tournaments held in this area.

Co-educational recreational activities are encouraged and sponsored by several agencies, including the golf, outing and modern dance groups.

Men's Athletics

The student body conducts a full program of men's intercollegiate athletics that includes football, basketball, baseball, track, boxing, and tennis, on both the varsity and junior varsity level. Competition is scheduled with colleges and amateur athletic organizations in California and Oregon. A large number of the men students participate in the intercollegiate competition of the College, for the coaching staff is especially interested in developing capable performers out of individuals with little or no athletic experience.

The College is a member of the Far Western Conference, and the regulations of that conference govern athletic eligibility. The member schools of this conference are: Chico State College, University of California at Davis, Humboldt State College, Southern Oregon College of Education, and San Francisco State College.

The Division of Health and Physical Education requires all men and women participating in intercollegiate athletics and intramural sports to pass a health examination each season.

Outdoor Recreation

The student seeking recreation on his own will find in the surrounding country a variety of scenic and natural attractions. Several miles of sand dunes extend along the ocean from the north jetty of the entrance to Humboldt Bay to Little River. North of Little River the coast becomes rugged, with numerous caves, points, and reefs. About 20 miles north of Arcata on the Redwood Highway is Patrick's Point with fine picnic facilities, and a couple of miles beyond that is Big Lagoon, a virtual salt-water lake which, protected from ocean breakers, affords safe swimming and boating. Within an hour's drive or less one can reach the famous redwood groves south of Scotia and north of Patrick's Point, as well as along the Van Duzen River. At North Dyerville Flat stands the tallest tree in the United States, 364 feet in height. Consultation of any good road map of Northern California will suggest several interesting trips into a rugged and little settled back-country interior from the coast.

Still other attractions offer themselves. Humboldt County possesses a relative abundance of wild game and fish. In the winter there is skiing on Grouse Mountain, where the College Ski Club has built a cabin. In the summer there is swimming in the pools of Mad and Eel Rivers. The golf course near Arcata makes special rates to students. The lighthouse at Cape Mendocino, the lighthouse and Spanish cross at Trinidad Head, the Blowhole three miles south of Trinidad, the Coast Guard station on the peninsula, the woolen mill in Eureka, the box factory in Arcata, and the large lumber mills in Arcata, Samoa, Eureka, and Scotia are places well worth visiting.

MUSIC

A wide and varied program is offered in the field of music, and there is abundant opportunity for students to participate in musical activities.

Music organizations include the 45-piece Little Symphony Orchestra, which gives two concerts each year with music chosen from the standard symphonic repertoire. The College Chorus, open to all men and women students regardless of ability, sings each spring with the Little Symphony, and in recent years has performed "The Rio Grande," "I Hear America Singing," and the Fauré "Requiem." The A Cappella Choir annually tours Northern California and the Bay region, singing at many schools, colleges, and churches. The choir has gained state-wide recognition for its outstanding performances.

Small ensembles include the Madrigal Singers, chamber music groups, and two-piano teams.

Humboldt State College boasts a strong Music Education department, with course offerings leading to elementary and secondary credentials. Practice teaching facilities are unexcelled, with opportunities to work in the College Elementary School and the city schools of Arcata, Eureka, and Fortuna.

Each year two concert courses, the Community Concert series and the Mu Epsilon Psi Recital series, are available to the student body. Artists who have appeared during recent years include J. M. Sanroma, pianist; William Primrose, violist; Igor Gorin, baritone; Appleton and Field, duopianists; Claramae Turner, contralto; and Dorothy Maynor, soprano.

The Music Department maintains an attractively furnished listening room which is open to all students who enjoy listening to records. Supervised listening hours are also scheduled at regular intervals.

An annual Music Festival, sponsored by the College, brings to the campus musical organizations from all high schools in this region in a festival culminating in two concerts by the vocal and instrumental groups of the participating schools.

DRAMA

The Drama Department of the College is noted for its productions. Each year it presents two major plays, a group of one-act plays, and play readings. Acting parts in these productions are open to all students who wish to try out. Also, through the Dramatic Workshop experience is offered in the other arts and crafts of the theater: scene design, stagecraft, lighting, make-up, etc.

The College sponsors an annual drama festival for the high school students of three counties, Mendocino, Del Norte, and Humboldt. Each high school participating presents a one-act play in a noncompetitive program which brings to the campus a large number of high school students interested in this field.

Humboldt State exchanges plays with two other colleges. Annual drama festivals are held with both San Francisco State College and Chico State College. Thus, each year the Humboldt Players have the opportunity of traveling to one of these schools and of entertaining the other on the Humboldt campus. The festivals, which are noncompetitive in nature, have become well known throughout Northern California.

RADIO

Many speech majors are particularly interested in the field of radio. Through arrangement with stations KIEM and KHUM in Eureka, these students are given practical experience in broadcasting. Several programs are broadcast by direct wire from the campus each week over these

stations. The schedule includes programs by both faculty and student groups. The College is a member of the Intercollegiate Broadcasting System of America.

Students receive regular course credit for participation in either music, drama or radio.

COUNSELING AND GUIDANCE

The College maintains a program of counseling and guidance designed to aid the entering freshman in making a satisfactory adjustment and to afford an adequate follow-up program throughout his stay at Humboldt State College. Since many factors affect the academic progress of a student and his ultimate success in life, the guidance program is many-sided and every faculty member participates in some phase of the program. The activities of the various agencies are coordinated by the Dean of Students.

At the time of registration individual attention is given by the faculty program advisers, who are assigned on the basis of vocational objective or major field. A student is free to consult his adviser at all times concerning academic or personal problems. The academic success of his students is a matter of paramount concern to every instructor, and the policies of the College are geared to the attainment of high scholastic standards.

The College provides facilities for administering many types of standardized tests under the direction of the Testing Bureau. All students take the Ohio Psychological Examination (i.e., the college aptitude test), the Bell Personal Adjustment Inventory, the Iowa Silent Reading Test, and the Kuder Vocational Preference test. Other tests that are available include the general education and the special subject tests prepared by the U. S. Armed Forces Institute, the Strong Vocational Interest test, and many others.

Early in the semester, the Deans of Men and Women interview individually each freshman student, and several freshman assemblies are held to promote adjustment to college life.

An excellent opportunity for group guidance and social living is provided through the college dormitories. The Head Residents administer the internal affairs of the dormitories, employing student government insofar as it seems feasible to do so.

HEALTH SERVICE

In order to safeguard the health of its students, the College engages a physician and a health director, and maintains a health service program. The college physician examines and counsels students on health problems. At least three medical examinations are given each student as follows:

- (1) At entrance (including a dental examination);
- (2) During the junior year;
- (3) Before graduation.

Included in the Student Body fee is a charge of \$1.50, covering physical education, hospitalization, and health services.

Emergency treatment is given in case of accident or illness. Hospital service with special rates in the local hospital is available to students

who make arrangements for such services through the Health Department.

VETERANS' SERVICE

For veterans, special counseling and guidance services are available. Several members of the faculty have served in the armed forces and all are interested in the returned veterans and their problems.

When the need for specialized guidance and counseling is apparent, such services may be scheduled with the Veterans Administration Advice and Guidance Section in San Francisco upon the signed application of the veteran. This applies to veterans who are enrolled under Public Law 346, as well as Public Law 16. A Veterans Administration Training Officer makes frequent, periodic visits to the college. Members of the counseling staff of the college are also available for counseling to assist any veteran who may wish assistance in determining his vocational goal or in solving his personal problems.

Wives of service men enrolled in the College are organized into a "G. I. Wives" Club, which holds regular monthly meetings. The group seeks to provide social activities for its members and especially to welcome strangers into the group and introduce them to the College and campus activities in which they are urged to share.

COMMUNITY RELATIONS

PLACEMENT SERVICE

The College maintains a Placement Bureau both for the service of graduates of the College and of employers. It seeks to help the College graduates, both current and past, find the positions best suited to their abilities and training, and to assist employers by recommending to them the candidates best suited to the positions to be filled.

The placement of graduates in the business courses is handled by the department. The bureau is alert to discover not only beginning positions for students, but to secure promotion for former students. For a number of years, the institution has been successful in placing virtually all of its recommended graduates, and at present, the demand exceeds the supply.

Students seeking positions as teachers will find it to their advantage to work through the Placement Bureau. This bureau assembles and furnishes to school officials information about the character, sense of responsibility, scholastic achievement, participation in student activities, and success in student teaching of the graduates of the College who hold teaching credentials.

Since the organization of the Placement Bureau over 20 years ago, more than 95 percent of all graduates who desired teaching positions have been placed. In recent years, this figure has frequently reached 100 percent. Humboldt graduates are teaching successfully in almost every county of the State.

COMMUNITY SERVICE

Inasmuch as the College is a state institution, its facilities, when not in use for college purposes, are available for use by the citizens of the State. It particularly welcomes conventions, conferences, and assemblies of educational or cultural nature. The College auditorium seats 350. Arrangements for the serving of meals in the dining commons should be made with the manager of Nelson Hall.

EXTENSION COURSES

Extension courses will be conducted at the College in the evenings or on Saturdays whenever a sufficient number of teachers or members of the general public make such a request. Similar courses will be offered away from the campus if at least 20 people enroll in a course and make provision for the additional expense of such instruction.

THE ALUMNI ASSOCIATION

Active in the support of college affairs is the Humboldt State Alumni Association. This organization seeks to perpetuate college friendships, to promote the interests of the College, to acquaint prospective students with the opportunities open to them at Humboldt State,

and to support worth while projects that contribute to the progress of the College.

Graduates and former students who have completed at least 6 units of work are eligible to membership in the association which holds annual or semiannual meetings, and publishes an alumni quarterly.

Former students (prior to 1947) who are eligible for membership may obtain a life membership in the association by the payment of a fee of \$10. Under a plan approved by the Associated Students and incorporated into the constitution of the Alumni Association, students pay a fee of one dollar per semester, and upon graduation, are automatically life members of the association. Those who complete 30 units of work but less than eight semesters may obtain life membership in the Association by paying the difference between their contributions and the total fee.

Officers of the association at present are:

James Cady	President
Thomas Hansen	Vice President
Edith Davis	Secretary
Fred Hibler	Treasurer
Robert Bryan, Walter Schocker	Directors
Edith Cameron	Editor of "Alumnus"

ADMISSION TO THE COLLEGE

REQUIREMENTS FOR ADMISSION

High school graduates and other applicants possessing equivalent preparation may be admitted to a state college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, by evidence of good moral character and personal qualifications, and by a satisfactory score on a standard college aptitude tests. Regular matriculation will be granted only after the satisfactory completion of a full semester's program of study with records indicating probable success in the chosen curriculum.

Veterans honorably discharged following completion of three full months of service in the armed forces during the emergency created by World War II, and applicants over 21 years of age, who are not high school graduates and who do not possess equivalent preparation but whose score on a standard college aptitude test indicates ability to do satisfactory college work in the chosen curriculum, may be granted provisional admission as special students. Such persons may be granted full matriculation on the following conditions: (1) the removal of all deficiencies; (2) the completion of one full semester's satisfactory college work in the chosen curriculum.

The state law provides that veterans who lack but one semester of high school work for graduation may secure their high school diplomas upon application to the high school. Those who lack more than one year of high school work are advised to: (1) Apply military service credit toward the removal of high school deficiencies and receive diplomas if possible; or (2) take the high school Test of General Educational Development prepared by the U. S. Armed Forces Institute. A satisfactory score on this test is usually accepted as a basis for granting the high school diploma, but additional statutory requirements may sometimes be required. Veterans should consult their high school principals concerning these matters.

Veterans who wish to be admitted to the College under the so-called "G. I. Bill," Public Law 346, should submit an application for a Letter of Eligibility to the Veterans Administration together with a photostatic or certified copy of their discharges. When they receive the Letter of Eligibility they must present it to the College when they report for registration.

Veterans with 10 percent disability or more should consult the Veterans Administration regarding the possibility of enrolling under the Veterans Rehabilitation Act, Public Law 16.

The State of California also offers educational assistance to veterans under the Veterans' Educational Institute, with headquarters in Sacramento. The state aid program may be used either before or after the federal educational assistance has been used, but it can not be used concurrently.

Upon admission to college, all students are classified on the basis of the curricula chosen and their qualifications for undertaking such

curricula. Approval for full matriculation shall be granted by the college faculty in accordance with State Board of Education regulations.

ADMISSION WITH ADVANCED STANDING

CREDIT FOR MILITARY SERVICE. Veterans who have served for a minimum of three months in the armed forces will receive credit in compliance with the recommendations of the American Council Guide to the Evaluation of Educational Experiences in the armed services. Wherever possible, this credit will be applied in satisfaction of specific requirements, but if this is not possible, it will be treated as unclassified, elective credit.

Veterans whose training included formal college work, (C. D. T., or A. S. T. P.), or who completed courses of college level under the U. S. Armed Forces Institute or other formally organized college classes should submit complete transcripts of record covering all such courses if they wish to receive credit for this work.

FROM OTHER COLLEGES. Applicants for admission who have completed work in any recognized institution of collegiate grade may be admitted and given advanced standing as determined by the proper authorities. These applicants must present transcripts of record showing satisfactory scholarship and honorable dismissal from the institution last attended. Credit toward the fulfillment of graduation requirements will be allowed only insofar as the courses satisfactorily completed meet the requirements of the basic course pattern of the curriculum to be followed in this College.

No credit is allowed for teaching or other practical experience. Specific requirements in certain departments may be waived, however, on the basis of previous experience. An exemption allowed for experience will not carry units of advanced standing nor diminish the number of units required for graduation.

Credits earned in nonaccredited colleges may be accepted as a basis for advanced standing only to the extent that the applicant can demonstrate to the satisfaction of the State College authorities that a satisfactory degree of proficiency has been attained in the courses in question.

FROM JUNIOR COLLEGES. Credits earned in accredited junior colleges will be evaluated by the State College in accordance with the following provisions:

1. Not more than 64 semester hours of work may be allowed for credit.

2. No credit may be allowed for professional courses in education.

SCHOLARSHIP AVERAGE. In the case of students transferring to this college from other institutions, the scholarship average at the previous institution will be included with the average made at this College.

ADMISSION TO THE GRADUATE DIVISION

Holders of bachelors' degrees from accredited institutions will be admitted to the graduate division to work toward the General Secondary Credential upon presentation of transcripts showing satisfactory scholarship records and adequate preparation in the major field. Students whose

undergraduate records do not qualify them for admission to the graduate level may be admitted to such upper division courses as may serve to remove deficiencies.

Requirements for the secondary majors and minors are outlined in the sections of this catalog devoted to the respective divisions. Requirements in Education are outlined on pages 52-58.

Credits earned in the graduate division of this institution are accepted wherever applicable in transfer to the University of California toward the Master's Degree.

TRANSFER TO OTHER INSTITUTIONS

Humboldt State College is accredited by the Northwest Association of Secondary and Higher Schools, by the University of California, and by the State Department of Education.

Holders of the A.B. or B.S. Degree from Humboldt State College are accepted for unconditional admission to the graduate school of the University of California at Berkeley upon presentation of transcripts of record. The amount of work to be taken for an advanced degree is determined when the student is interviewed at the University. This same procedure is applied to graduates of all universities and colleges. Accreditation by the State University implies similar acceptance by other institutions. Humboldt students transfer freely to other colleges, universities and professional schools.

All students intending to transfer to another institution should consult the requirements of the institution to which they intend to transfer and arrange their programs at Humboldt accordingly.

During the present emergency, many professional schools have introduced varied screening devices, so that admission is on a highly selective basis. Students who expect to transfer to these professional schools should acquaint themselves with prevailing standards in the particular fields to be pursued.

SUBJECT A

Students who enroll as freshmen at Humboldt State College are required to take the Subject A examination during the registration period. Those who pass the Subject A test with a satisfactory score enroll in English 1A, First Year Reading and Composition, during the first semester in college. Those who fail the examination are required to take Subject A, English Composition. Although credit is given for this Subject A course, these units may not apply toward the six units in English required for a Bachelor's Degree. The Subject A examination is a thorough test in English usage and composition.

All entering students except those who have passed the University of California Subject A examination or have passed a course in college composition in some other college are required to take this examination.

COLLEGE APTITUDE TEST

All new students are required to take the college aptitude test, which is given each semester.

REGISTRATION

Students should report for registration in compliance with the schedule announced in the calendar. A faculty adviser is assigned to each student according to the curriculum he selects. After a program has been approved by the adviser, the student completes his registration by the payment of fees and the filing of his registration and course cards.

The student's official study list is filed in the office of the Registrar. Since this list is the basis for official reports and records, the student must assume responsibility for keeping this list accurate at all times.

Prior to formal registration, conferences may be held with advisers or with the Registrar about suitable programs or course requirements.

New students, both freshmen and transfers, should make preliminary arrangements for registration and evaluation of transcripts before the opening of the semester. Transcripts of former work should be filed with the Registrar two weeks in advance.

Students who are unable to report for registration during the designated period must make special arrangements with the administration and the faculty concerned. A special fee of \$2 is collected for late registration.

SUMMER SESSION

Each year the College holds a summer session designed to meet the needs of (1) high school graduates prepared to enter college, (2) students and teachers working toward a degree or a teaching or administrative credential, (3) teachers who desire to take "refresher" courses or to acquaint themselves with modern educational philosophy and procedures, and (4) persons seeking cultural advantages or combined study and recreation in one of the most scenic regions of California.

Admission to the summer session does not necessarily guarantee admission to the regular session. For students with no previous college work, admission requirements for summer session are the same as for regular session. (See pages 23-24.)

A feature of the recent summer sessions has been a workshop in elementary education, which has proved to be of special interest to in-service teachers.

The Registrar will send the Summer Session Bulletin upon request.

ACADEMIC REGULATIONS

UNIT OF CREDIT

A semester unit represents quantitatively 54 clock hours of work. It is usually administered as one recitation hour per week for 18 weeks, with two hours of preparation for each recitation hour. It may be administered as three recitation hours per week for 18 weeks without outside preparation.

CLASSIFICATION OF STUDENTS

Students are classified in two ways in terms of number of units completed.

Students who have completed less than 60 units are classed as *lower division students*. Ordinarily they are allowed to enroll only in lower division courses (see page 49). Students who have completed 60 or more units are classed as *upper division students*. They may enroll in both lower and upper division courses.

A student's class is determined by the number of units completed, as follows:

Freshmen	-----	Less than 30 units
Sophomores	-----	30 to 59½ units
Juniors	-----	60 to 89½ units
Seniors	-----	90 or more units

During a given semester students registered for more than five units are classified as *regular* students. Students registered for five units or less are known as *limited* students.

MARKING SYSTEM

Grades

A five-grade marking system is used. The grades employed are defined as follows:

A	-----	Excellent
B	-----	Above Average
C	-----	Average
D	-----	Barely Passing
F	-----	Failure

Plus (+) as given in certain courses means passed with a grade of "C" or better. Inc. means "incomplete," W "withdrawn."

"Incomplete" will be given to students who have been doing passing work and who, through no fault of their own, are unable (a) to take a final examination or (b) to complete certain class or laboratory work by the end of the semester. The grade is not given to students who are failing or who are dilatory. *The uncompleted work must be made up within the next year of residence, or the "Incomplete" automatically becomes a Failure.*

Honor Points

Each of the above grades carries honor points as follows:

A-----	3 per unit
B-----	2 per unit
C-----	1 per unit
D-----	0 per unit
F-----	0 per unit

No honor points are given for an "Incomplete" until the final grade is given. Neither units nor honor points are given for a course from which a student withdraws. Hence, marks of "Incomplete" or "W" have no effect upon the Scholarship Index.

Scholarship Index

The Scholarship Index is a device for rating a student's scholarship average. It is derived by dividing the total number of honor points earned by the total number of registered units. In computing the index, units are not included for courses that carry no honor points.

If a student repeats a course in which he has received grades of "D" or "F," he will receive the grade and honor points earned in the repeated course except that unit credit will be allowed only once for a course.

Unless otherwise specified, the term "Scholarship Index" refers to the cumulative rather than the semester index.

NORMAL PROGRAM

Fifteen or sixteen units of work in addition to a half-unit in physical education constitute an average program for a semester. According to the definition of semester unit given above, this means 48 hours of actual work each week.

Students who have demonstrated their ability, measured in terms of the Scholarship Index, may be permitted to carry additional work according to the following scale:

<i>Index of scholarship</i>	<i>Maximum load for following semester</i>
1.25-1.74 -----	17½ units
1.75 and above-----	18½ units

First semester freshmen, however, are limited to a maximum load of 17 units.

The approval of the Health Department is also required for students who register for more than the normal program.

In order to secure credit for their work students must have their programs approved by the faculty adviser.

CLASS ENROLLMENT AND ATTENDANCE

For each student who registers for a given class a course card is issued to the instructor. No student may be admitted to class unless the instructor has received his course card.

The College believes that regular and punctual class attendance is important to a high standard of work. Each instructor makes his own

regulations regarding attendance requirements. Students finding it necessary to be absent from college should obtain the approval of the President's secretary. Freshmen who are absent because of illness should secure a health excuse from the Health Office and present it to each of their instructors.

Any member of the faculty may exclude from his course any student who has neglected the work of the course, or is discourteous, or persists in practices annoying to the instructor or the class.

CHANGES OF PROGRAM

Necessary program changes may be made during the first four weeks through the Registrar's office with the consent of the student's adviser. Thereafter no program changes may be made. Exceptional cases, however, may be referred to the Scholarship Committee.

To drop a course, the student's procedure is as follows: (1) obtain his course card from instructor, (2) have it signed by adviser, and (3) turn it in at the Registrar's office. To enter a new course, the student should (1) obtain a "Permit to Enter" card from the Registrar, (2) have it signed by his adviser, and (3) exchange it at the Registrar's office for a course card which is filed with the instructor.

WITHDRAWAL FROM COLLEGE

Upon petition, an honorable dismissal may be granted to any student in good standing, provided arrangements have been made with the Registrar.

Students who withdraw after the first four weeks of any semester shall be given "W's" or "F's" depending on the quality of their work. During the last four weeks of the semester, students who have to drop out of college because of illness or other unavoidable circumstances may petition for "Incomplete" grades. This privilege shall be granted only to those whose work is of passing grade at the time of withdrawal.

Students who neglect to comply with these regulations shall have their courses automatically reported as "Failures."

REPORTS TO STUDENTS

At the end of the semester, reports are given to the students, the regular marking system being used.

Mid-semester reports are made to students doing unsatisfactory work. These reports are followed by conferences with the student's adviser, instructor, or the Dean of Men or Women.

CREDIT BY EXTENSION OR CORRESPONDENCE

Except as provided hereinafter, students regularly enrolled in the College may be admitted to extension classes upon the approval of the adviser and the President of the College. In such cases the combined program shall be subject to the established load limitations for regular students. Faculty members may not offer extension courses to regularly enrolled students on an extension fee basis.

The maximum credit toward the minimum degree and credential requirements is set at 30 semester units of either extension or correspondence work, or any combination of both taken in a California State

College or other reputable institution. Of these 30 semester units, not more than 15 may be accepted until the student has completed a semester or quarter of full-time work in a California State College, or a comparable institution, with a scholastic average of 1.5 or above for such residence work.

An exception to the above ruling is made in the case of returning service men who may receive credit for all extension and correspondence courses which they may have completed, provided the courses are of college caliber, and that the applicant meets the college entrance, residence, and pattern requirements for a degree. The College further reserves the right to administer examinations covering any or all such courses for which credit is asked.

Neither extension nor correspondence credits shall be counted toward the residence requirements.

PROBATION AND DISQUALIFICATION

A student will be placed on probation whenever his cumulative record shows a grade point deficiency of 10 or more. He will remain on probation until the deficiency is decreased to less than 10, or until he is disqualified.

A student on probation shall be disqualified if his grade point deficiency increases by five or more over any minimum which he has reached while on probation.

Any student whose semester record falls below a "D" average shall be disqualified.

Any student whose cumulative index is below a 1.00 shall be placed on warning.

Students whose personal conduct is unsatisfactory may be disqualified by administrative action at any time.

A student who has been disqualified for unsatisfactory scholarship may apply through the Registrar for re-entrance upon probation after the lapse of one semester.

FEES AND EXPENSES

FEES

Regular Fees

Payable by students taking more than 5 units at the time of registration. These are all required by the State except as noted otherwise.

Registration fee—per semester.....	\$6 50
Materials and service fee—per semester.....	6 00

Student Body Fees

	Fall Semester	Spring Semester
Incidental fee (Not a State fee).....	\$18 50	\$13 50
(New students		18 50)

(This fee entitles the student to membership in the Associated Students, services of the Physical Education Department, Health and Hospitalization services, an installment on Alumni dues, subscriptions to the Lumberjack and the Sempervirens. The Publications fee is collected only once during the year.)

Diploma fee at graduation:

With leather portfolio.....	2 50
Without leather portfolio.....	1 00

Occasional Fees

Registration fee for students taking 5 semester units or less—per unit.....	\$2 50
Materials and service fee for students taking five units or less—per unit.....	50
Extension fee—per unit.....	6 00
Late registration fee—regular students only.....	2 00
State credential fee—paid directly to Registrar's office—each credential.....	3 00
Special examinations—each examination.....	1 00
Change of program fee (Limited to regular, or regular to limited, or reduction in limited).....	50
Miscellaneous Penalty fee (failure to meet administrative appointment or deadline).....	2 00
Studio Lessons \$1 to \$4 per lesson, payable at time of registration.	

Summer Session

Tuition Fee

Six weeks session:	
4 semester units or more.....	\$36 00
Less than 4 semester units, per unit.....	9 00
Three or four weeks session:	
3 or more units.....	24 00
Less than 3 units, per unit.....	9 00

Summer session lecture and recreation fund (not required by State)

4 weeks or more.....	50
Less than 4 weeks.....	25

Summer session health and physical education fee

4 weeks or more.....	50
Less than 4 weeks.....	25

Late Registration Fee.....

2 00

(The late registration fee is due and payable by any student who registers after the first three days of the session. Registration day is counted as the first day of the session.)

Auditors

Persons enrolled in college classes as auditors only are subject to the above fees in the same manner as those enrolled for credit.

REFUNDS

Students who find it necessary to withdraw from college may, under conditions prescribed by law, obtain a refund of tuition fees. Application for refund must be made not later than three weeks from the date of the student's registration. In case of illness, a duly authorized representative of the student may file the application for him. When a refund is granted, a charge of \$1.50 per semester is made to cover costs of registration. Students who wish to make application for a refund should consult the Comptroller for further information concerning the regulations which govern such procedure.

STUDENT BODY FEES. These fees are not refunded if a student has participated in any student body activity.

SUMMARY OF EXPENSES FOR REGULAR STUDENT

	<i>Expenses at Registration (Twice a year)</i>	<i>Approximate Monthly Expenses</i>		<i>Total for School Year (9 months)</i>	
		<i>Minimum</i>	<i>Maximum</i>	<i>Minimum</i>	<i>Maximum</i>
Registration fee -----	\$6 50	----	----	\$13 00	\$13 00
Materials and service fee----	6 00			12 00	12 00
Student organization expenses (Club dues, yearbook, hospitalization, physical education, and alumni fees, etc.)	25 00	----	----	50 00	50 00
Books, papers and supplies (approx.) -----	15 00-50 00			30 00	100 00
Sub-total -----				105 00	175 00
Board and room-----		\$55 00	\$70 00	495 00	630 00
Miscellaneous (Entertainment, laundry, cleaning, etc.) -----		10 00	25 00	90 00	225 00
Total -----				\$673 00	\$1030 00

Bus fare: Eureka-Arcata, \$6 50 per month.

STUDENT EMPLOYMENT SERVICE

Opportunities for part-time employment are available for deserving students. The College employs as much student help as possible, particularly in the Commons, and for other types of work on the campus. The College also has requests for assistance for light housework, care of children, janitorial and clerical work. Application for employment should be made to the Dean of Students before registration.

For information in regard to loans and scholarships which are available, see page 33.

HONORS, SCHOLARSHIPS AND LOANS

SCHOLASTIC HONORS

GRADUATION HONORS are awarded to graduating students at Commencement, subject to the approval of the faculty, on the basis of their scholastic index achieved in their undergraduate work as follows:

Index 2.00-2.34 — with honor

Index 2.35-2.74 — with high honor

Index 2.75-3.00 — with highest honor

SEMESTER HONORS are given to all regular students who during a semester complete 12 or more units of work carrying a letter grade and who achieve a scholastic index of 2.00 with no *F*'s or *Incompletes*. These honors are announced at the Chi Sigma Epsilon honor assembly early in the following semester.

HONOR SOCIETIES

CHI SIGMA EPSILON is the upper division honor society, which elects members during the first part of each semester. High scholastic attainment, qualities of leadership, and high ideals of character form the basis of selection.

RHO SIGMA is a sophomore honor society, sponsored by Chi Sigma Epsilon, whose active members select them each semester from the sophomore class on the same basis as election to Chi Sigma Epsilon.

SCHOLARSHIPS

A number of scholarships in varying amounts have been set up by individuals and organizations to provide recognition and assistance for worthy students. Some are entrance scholarships to be awarded to high school seniors, and others are to be awarded to students already enrolled in college. Further information concerning the scholarships or the method of application may be obtained from the office of the Registrar.

THE ANNETTE PARTON JOHNSON PRE-NURSING SCHOLARSHIP. This annual award of \$50 commemorates the courage of Annette Parton Johnson, local nurse, who was credited with saving the lives of the patients in the old Trinity Hospital when it was destroyed by fire. The award was established by community agencies in appreciation of her service. It is open either to a high school graduate who will enroll in the pre-nursing course at Humboldt State College or to a college student already enrolled in that curriculum. High school students who are interested should submit transcripts of record and letters of recommendation from either the high school principal or the girl's adviser.

THE ARCATA ROTARY CLUB HONOR ENTRANCE SCHOLARSHIP. This annual scholarship of \$50 is offered by the Arcata Rotary Club to an outstanding graduate of Arcata Union High School who enrolls as a beginning freshman at Humboldt State College. Applicants must pre-

sent transcript evidence of high scholarship in the work taken during their last three years in high school, with not less than 10 recommending units from high school as a minimum scholarship requirement. They must also be recommended by the principal as persons of good character who, as high school students, have participated in school activities in a commendable manner.

THE ASSOCIATED BUSINESS GIRLS' SCHOLARSHIP. The Arcata Chapter of the Associated Business Girls awards a girl graduate of the Arcata Union High School a scholarship sufficient for the payment of all fees for the first year of the commercial course.

THE BELLE W. GLASER MUSIC SCHOLARSHIP. Miss Belle Dickson, formerly Assistant Professor of Education at Humboldt State College, has established this scholarship in honor of her aunt, Mrs. Belle W. Glaser, a prominent San Francisco musician. The purpose of the award is to provide a fund to encourage students who have demonstrated ability and interest in the field of music to continue their studies in this field. The award (\$50) is to be used either for tuition, fees, or for private music lessons. Any student with junior standing or higher, of satisfactory scholarship and character, is eligible to receive the award. Other things being equal, preference shall then be given on the basis of financial need.

THE CRAIG SCHOLARSHIPS. Two scholarships of \$100 each have been established by Miss Ann V. Craig, former member of the college faculty, in honor of her father and mother. The Edith R. Craig Scholarship is presented to a freshman student chosen at the end of his or her freshman year at the College. The John F. Craig Scholarship is presented to a sophomore student chosen at the end of his or her sophomore year at the College. Selection of the recipients is made by a faculty-student committee of three from those students in the respective classes who have a scholarship index of 2.0 or better and who have participated actively and commendably in at least one extra-curricular activity. Other considerations being equal, preference is given to the students with the greatest financial need.

THE HENRY F. BRIZARD MEMORIAL SCHOLARSHIPS. Three honor scholarships have been established by Mrs. Henry F. Brizard, in memory of her husband, who was for many years an active friend of Humboldt State College. These scholarships were established to encourage deserving high school graduates to continue their studies, and students who have already demonstrated their ability at college to do advanced work, in the hope that such students, conformant to the ideals of Mr. Brizard, will render a valuable service to society.

The honor entrance scholarship (\$100) will be awarded to an Arcata Union High School graduate who presents evidence, by transcript, of high scholarship (at least 10 recommending units) in work taken during his last three years in high school, and is recommended by his principal as a person of good character.

An honor upper-division scholarship (\$150) will be awarded to a worthy student who has completed two years of work (60 semester units) at Humboldt State College with a scholarship index of not less than 2.0

(*B* average) and has participated commendably in at least one extra-curricular activity.

A special honor scholarship (\$100) will be awarded to a worthy student who has completed at least 30 semester units of work at Humboldt State College with an index of 1.50 or better, who has distinguished himself in any one special field, as music, drama, art, English, sciences, etc., and who has participated commendably in at least one extra-curricular activity.

THE HUMBOLDT COUNTY FEDERATION OF WOMEN'S CLUBS SCHOLARSHIPS. Each year the Humboldt County Federation of Women's Clubs awards scholarships of \$50 each in voice and musical instruments. The music scholarships provide private instruction at the College. Recipients are determined by an annual contest at the College in the spring. They must be high school graduates of good standing and must major or minor at the College in the field in which the award is made.

If funds are available, one scholarship may be granted in another field. In the past, this additional scholarship has been awarded in the fields of pre-nursing and home economics.

THE KRAMER MEMORIAL SCHOLARSHIP. This award of \$200 is sponsored by the Humboldt County Medical Society in honor of Doctor Lowell G. Kramer, formerly of Fortuna, California, who lost his life in military service in World War II. It is to be awarded annually to a student enrolled in Humboldt State College on the basis of an essay contest dealing with a theme closely related to medical science or services, public health, or nursing. Essays must be filed not later than April first of each year.

THE LAURA P. MAHAN SCHOLARSHIPS. Four scholarships carrying stipends of \$160 each are available to Humboldt State College students each year under the terms of the will of Laura P. Mahan. Two of the scholarships are in the field of art, and two are open to other college students. The awards are limited to graduates of Humboldt County high schools and to bona fide residents of Humboldt County.

THE MUSICIANS' UNION, LOCAL 333, awards an annual scholarship of \$100 to an entering student with outstanding promise in music. The award may be applied toward general or specialized work in music or may be applied toward general college fees. The recipient should major or minor in music at Humboldt State College.

* **THE QUOTA CLUB SCHOLARSHIP IN HOME ECONOMICS.** The Quota Club of Eureka has established a scholarship of \$100 to be awarded to a student majoring in Home Economics at Humboldt State College. The recipient is to be selected by the faculty Committee on Scholarship Awards, upon the recommendation of the Home Economics Department.

THE SOUTH FORK P. T. A. SCHOLARSHIP. The Parent-Teacher Association of the South Fork Union High School awards a scholarship sufficient for fees and books to an outstanding and deserving graduate of that school who enrolls as a freshman student at Humboldt State College.

* Not offered, 1949-50.

THE ZETA ETA SCHOLARSHIP IN ART. Zeta Eta Chapter of Beta Sigma Phi offers an annual scholarship of \$60 to a sophomore student registered at Humboldt State College and majoring in Art. Eligibility will be determined by the faculty Committee on Scholarship Awards upon the recommendation of the Art Department.

THE CALIFORNIA CONGRESS OF PARENTS AND TEACHERS SCHOLARSHIPS IN ELEMENTARY EDUCATION. To stimulate interest in elementary education, a number of \$300 scholarships have been provided by the California Congress of Parents and Teachers. These scholarships are available to senior students in high school or to college students enrolled in the general elementary teacher training program.

VOCATIONAL REHABILITATION. The Bureau of Vocational Rehabilitation, State Department of Education, offers its service to students who have an employment handicap resulting from physical disability of any kind. Included are vocational counseling, the payment of tuition and fees, and the provision of textbooks without charge.

MISCELLANEOUS AWARDS

ARCATA KIWANIS CLUB AWARD. The Arcata Kiwanis Club awards a \$10 prize each year to the Arcata High School graduate who has made the highest scholastic record at Humboldt during his freshman year.

AWARD FOR CREATIVE WRITING. President and Mrs. Gist have provided an annual prize of \$10 to stimulate creative writing. The arrangements for submitting manuscripts and the selection of the recipient are in the hands of the Department of English.

CHI SIGMA EPSILON FRESHMAN AWARD. This award is presented each spring to the student who has made the highest scholastic record in the freshman class at Humboldt State College.

EUREKA NEWSPAPERS AWARD IN JOURNALISM. The Eureka Newspapers annually award a total of \$25 to the student or students contributing the best writing to the "Lumberjack."

FACULTY WOMEN'S GIFT. The Faculty Women's Club of the College presents a monetary gift to the graduating woman who has achieved the highest scholastic average during her four-year course at Humboldt State College.

PHI BETA KAPPA MEDAL. This medal is presented at Commencement by the Phi Beta Kappa members of the faculty to the student of sophomore standing or higher who makes the highest scholastic average during the year.

LOAN FUNDS

GENERAL STUDENT LOAN FUND. A small loan fund is at the disposal of the College to assist worthy students in meeting their necessary expenses. It has generally been the policy to make this fund available to students in the upper division courses. Students needing financial assistance are advised to discuss their problems confidentially with the Dean of Women, Dean of Men, or the President. Application for all loans should be made through the Comptroller.

SPECIAL STUDENT LOAN FUND. The faculty and certain organizations in Humboldt County have provided a special loan fund to assist worthy students in registration expenses. The student should file his application prior to registration. Rarely are loans made to new students.

JACKSON LOAN FUND. A bequest of five hundred dollars from the estate of Mrs. H. W. Jackson established a loan fund for deserving students studying music.

ROTARY CLUB LOAN FUNDS. The Rotary Clubs of Arcata and Eureka have established loan funds available for worthy students recommended by the President.

THE BUSINESS AND PROFESSIONAL WOMEN'S LOANS. The Business and Professional Women's Club of Eureka maintains a fund from which scholarships are awarded on a loan basis to women selected by the Club.

DEGREES, CREDENTIALS AND CURRICULA

GENERAL STATEMENT

The work offered by the College falls principally into two groups: (1) Teacher education curricula, administered by the School of Education; and (2) Liberal Arts Curricula, administered by the School of Arts and Sciences. A more detailed outline is as follows:

I. Teacher Education Curricula

A. Graduate work leading to

1. The General Secondary Credential with majors in:

Art (p. 65)	Music (p. 77)
Business Education (p. 128)	Physical Education (p. 91)
English-Speech (p. 101)	Social Sciences (p. 124)
Life and General Science (p. 110)	Speech-English (p. 83)

2. Administration and Supervision Credentials as follows:

Elementary School Administration Credential (p. 62)
Elementary School Supervision Credential (p. 62)
Special Supervision Credential (p. 62)

B. Work leading to the A.B. Degree with the following credentials:

General Elementary Credential (p. 54)
General Junior High School Credential (p. 54)
Kindergarten-Primary Credential (p. 54)

Special Secondary Credentials in:

Art (p. 65)	Music (p. 77)
Home Economics (p. 70)	Physical Education (p. 91)

Combinations of the foregoing credentials may be arranged.

II. Liberal Arts Curricula

A. The A.B. Degree with majors in:

Allied Arts (p. 64)	Music (p. 77)
Art (p. 65)	Pre-Medical Sciences (p. 110)
Biological Sciences (p. 110)	Secretarial Science (p. 128)
Botany (p. 110)	Social Sciences (p. 126)
Business Administration (p. 128)	Social Service (p. 126)
Economics (p. 126)	Speech and Dramatics or
English (p. 101)	Speech-Radio (p. 83)
History (p. 126)	Zoology (p. 110) and a
Home Economics (p. 70)	Group Major (p. 145)

B. The B.S. Degree with major in Wildlife Management (p. 112), Fisheries (p. 112), and Nursing (p. 98)

C. Lower Division curricula:

1. Terminal Vocational:

Drafting	Photography
Journalism	Recreational Leadership
	Secretarial Training

2. Preparatory for transfer to other institutions (commonly designated as Pre-Professional):

Agriculture	Library Science
Architecture	Medicine
Dentistry	Mortuary Science
Engineering	Nursing
Forestry	Optometry
Law	Pharmacy
Letters and Science	Veterinary Science

Other terminal and pre-professional curricula may be arranged to fulfill specialized needs.

GENERAL REQUIREMENTS FOR THE BACHELOR'S DEGREE

All students who are candidates for the A.B. and B.S. Degrees † must comply with certain basic requirements established by the State Department of Education and the College. Additional requirements may be prescribed for a specific curriculum, but the requirements common to all degree curricula are as follows:

UNITS. For the A.B. Degree, a minimum of 120 units is necessary for graduation. For the B.S. Degree, the minimum is 128 units. Of these at least 40 units must be selected from Upper Division courses.

Candidates for the A.B. Degree alone must complete at least 60 semester units outside the major field. Candidates for teaching credentials except the General Secondary must complete at least 80 semester units outside the major field.

RESIDENCE. At least 24 of the 120 unit total must be completed at this College in residence. Six of the last 30 units taken for a degree must be taken *in residence* at the College.

SUBJECTS. All candidates for either degree must take:

*Elem. Algebra and Plane Geometry (if not taken in High School)

Social Sciences -----12 units

(Including the statutory requirement in U. S. History and Constitution. See statement below.)

Eight of the 12 units required must be taken in the lower division. At the discretion of the division, one year of social science taken in the senior year of high school for which recommended grades were received may be substituted for three units of social science.

Courses applicable toward fulfillment of this requirement may be chosen from the following: Economics, Geography, History, Political Science, and Sociology.

Natural Sciences -----12 units

Eight of the 12 units required must be taken in the lower division. At the discretion of the division, chemistry or physics taken in the senior year of high school for which recommended grades were received may be substituted for three units of biological or physical science.

English (in the lower division) ----- 6 units

Psychology (in the lower division) ----- 3 units

Physical Education ----- 2 units

Restricted Electives from Philosophy, Art, Music, Speech Arts,
Foreign Language, or Literature (English 46A-B or 74A-B) --- 6 units

A physical education activity course is required each semester for all lower division students taking 12 units or more, unless excused by the chairman of the Division of Health and Physical Education.

A knowledge of the provisions and principles of the Constitution of the United States and of American History is required of all candidates

† Detailed requirements for the B.S. Degree will be announced later.

* The requirements in Elementary Algebra and Plane Geometry may be fulfilled by passing an examination given by the Mathematics Department.

for a bachelor's degree. The requirement may be satisfied in one of the following ways:

- (1) By passing an examination in American Government and American History.
- (2) By completing in the College the following courses:
 - (a) Political Science 51
 - (b) History 70
- (3) By presentation of a certificate of completion of an appropriate course or courses at another accredited collegiate institution.

Note: Candidates for the General Secondary, Junior High School, General Elementary, or Kindergarten-Primary Credentials must fulfill the requirement in U. S. Constitution in an accredited California institution.

MAJORS AND MINORS. Each candidate must complete one major and one minor.

A *major* is a sequence of courses arranged to provide concentration in a field of special interest to the student. The student should select his major field with care, in accordance with his interests and objectives. Although it is possible to transfer from one major field to another, it is usually done at the expense of time and units.

A distinction is made between a teaching major in connection with the Junior High School Credential (and designated as a Junior High School major) and the major completed by students interested in securing a General Secondary Credential, or an A.B. Degree in Liberal Arts without a teaching credential.

The Junior High School major is composed of not less than 24 units, at least 12 of which must be in the upper division, and is available in the following fields:

Art	Mathematics
Biological Sciences	Music
English	Physical Education
Health and Hygiene	Social Sciences
Home Economics	Speech and Dramatics
Industrial Education	

Liberal Arts and Secondary majors usually require 24 units of upper division work, together with the necessary lower division prerequisites. Since the majors for the Secondary Credential are field majors (e.g., social science) instead of subject majors (e.g., history), the requirements often exceed the minimum. Greater concentration may be more desirable for students who aspire to work toward advanced degrees. Adjustments in the program for such students should be discussed with faculty advisors.

Students not interested in teaching may secure an A.B. Degree in one of the liberal arts curricula, completing a major in an appropriate field. These curricula provide a broad cultural and professional background for general education, business, government positions, law, medicine, church work, social service work, youth work, radio, or for graduate study or research.

For a detailed description of the requirements for the A.B. Degree with a secondary or a liberal arts major, see the respective divisions as indicated. Fields in which these majors are offered are listed on page 38.

A *minor* is a sequence of courses in a chosen field of not less than 12 units (except the teaching minor for the General Secondary Credential, where the minimum is 15 units), at least six of which must be in the upper division. In many cases, however, requirements within subject fields exceed this minimum.

In general, minors are designed to give breadth and background. In the curricula leading to teaching credentials they may serve the additional purpose of providing a second subject which the student may teach if necessary. Some combinations are better than others for transfer credit; some are better as teaching combinations. The future plans of the candidate will determine in part what is desirable to choose for minor fields.

Minors are available in the following fields:

Accounting	Journalism
Art	Mathematics
Biology	Music, Vocal or
Botany	Instrumental
Business	Physical Education
Chemistry	Political Science
Economics	Psychology
Education	Radio
English	Secretarial Training
French	Sociology
Health and Hygiene	Spanish
History	Speech and Dramatics
Home Economics	Wildlife Management
Industrial Education	Zoology

Candidates for the General Secondary Credential may complete teaching minors in the following fields:

Art	Journalism
Biology	Life Sciences
Business Education	Mathematics
Chemistry	Music
Economics	Physical Education
English	Radio-Speech
Health and Hygiene	Social Studies
History	Sociology
Home Economics	Speech
Industrial Education	

Students interested in a General Secondary minor in French or Spanish should consult the department.

The requirements for each major and minor listed are to be found stated in detail at the beginning of the respective divisional sections under "Courses of Instruction."

SCHOLARSHIP. A scholarship average of "C" (index of 1.0) is required for graduation with the Bachelor's Degree in all work taken, and in the majors and minors, as well.

LOWER DIVISION CURRICULA

The College offers two types of lower division curricula. The first is terminal in character and is offered in the following fields:

Secretarial Training (p. 130)

Journalism (p. 103)

Drafting (p. 73)

Recreational Leadership (p. 92)

Photography (p. 66)

The second type comprises a number of lower division curricula the continuance of which in the upper division the College is not equipped to provide. Most of such curricula are pre-professional or technical in character, and are designed to meet the needs of those students who plan to obtain a Bachelor of Arts or a Bachelor of Science Degree or a certificate of completion at some other institution, but who wish to do the lower division work at Humboldt. *These students should acquaint themselves with the particular requirements of the institutions to which they intend to transfer and should ascertain which of the courses offered at the College will be accepted in preparation for their chosen fields of study.*

The following curricula are the more common fields of study in which the College offers lower division courses. These curricula are suggestive rather than fixed, since the specific course requirements of other institutions may vary. Nor is the list of lower division curricula complete; others may be arranged if the demand presents itself.

Since most of the students who take their lower division work at this College and then transfer elsewhere for the upper division work transfer to the University of California at Berkeley, the curricula described below are in most instances devised to meet the requirements of the University.

In some instances the University revises its requirements after the publication of this catalog, and the student is therefore cautioned that he should be sure to consult the latest bulletin from the University.

Students transferring to the University of California must meet (a) the entrance requirements of the University; and (b) the lower division requirements for the specific curricula involved.

To aid the student in planning his course, the requirements for the Degree of Associate of Arts, which the University grants upon completion of the lower division work, are given here:

**Requirements for the Degree of Associate in Arts
University of California**

(See University of California Circular of Information for details)

- (a) *Subject A.* (Completion of English A, 1A, or 1B at Humboldt satisfies this requirement.)
- (b) *Foreign Languages.* At least 16 units in not more than two languages, with not less than 4 units in any one language. The first two years of high school work in a foreign language will be counted in satisfaction of 4 units of this requirement and each year thereafter as 4 units.
- (c) *Mathematics.* Elementary Algebra and Plane Geometry.
- (d) *Natural Science.* Twelve units chosen from the following: High School Chemistry, High School Physics, Anthropology 1A, Bacteriology, Biology 10A-10B, Botany 1A, 1B, Chemistry 1A-1B, 5, 8, Geology 1A, Paleontology 1, Physics 4A-4B-4C, 2A-2B, 3A-3B; Physiology, Zoology 1A-1B.

- (e) *Additional.* A year course of 5 or 6 units in each of four of the following groups (one of which may be postponed to the upper division) :
- (1) English 1A-1B ; Speech 1-2, or 1-3.
 - (2) Foreign Language (additional to b).
 - (3) Mathematics (two courses from: Math. C, High School Trigonometry, 2, 3A, 3B).
 - (4) Social Science, Economics 1A-1B, History 4A-4B, 8A-8B, Psychology 1-2, Political Science 1A-1B, Sociology 1A-1B).
 - (5) Philosophy 6A-6B.
 - (6) Fine Arts (Art 1, 2, Music 3, 4, 101, 102, English 46A, 46B, 74A, 74B, Speech 2, 102).

The student should also include in his lower division program courses in U. S. History and Government to fulfill legal requirements for graduation.

PRE-AGRICULTURAL

Agricultural Economics

Subject A	Units
Botany, Bacteriology, Chemistry, Geology, Physics, Physiology, Zoology, or additional mathematics	18
Mathematics (including Trigonometry)	9
English or Speech	6
Business Administration or Economics	15
Anthropology, Geography, History, Philosophy, Political Science, Psychology or Sociology	12
Physical Education	2
U. S. History and Government	4

Animal Science

Subject A	Units
Chemistry	13
Botany	4
Physics	6
Economics	6
Zoology	13
Bacteriology	5
Geology or Soil Science	3
English	3
Mathematics (Including Trigonometry)	9
U. S. History and Government	4
Physical Education	2

Plant Science

Subject A	Units
Chemistry	16
Botany	8
Physics	6
Bacteriology	5
Economics	3
English or Speech	3
Mathematics (Including Trigonometry)	9
Physical Education	2
U. S. History and Government	4
Zoology (Including Entomology and Genetics)	9
Electives to total at least 60 units.	

It is also possible to complete at least one year of the program in Entomology and Parasitology, and in Soil Science at Humboldt State College.

PRE-ARCHITECTURE

Students who expect to transfer to Stanford University to study architecture may profitably spend two years at Humboldt State. This

two-year course should include the following: English 1A-1B, Mathematics 3A-3B, French 2A-2B, Civil Engineering 2, and as much art as practicable.

If the study of architecture is to be pursued at the University of California the student may find it advantageous to enroll here if he has entrance deficiencies to remove. While he is thus engaged he should also include in his program Physics 2A-2B, 3A-3B, Mathematics 3A-3B, 4A, and Industrial Education 7A and Engineering 22, if he has not had mechanical drawing in high school. It is necessary to meet the requirements for the Associate in Arts Degree to enter the School of Architecture at the University of California. (See page 42.)

PRE-DENTAL

Subject A	Units
English 1A-1B or Speech 1-2 or 1-3	6
Physical Education	2
Science	28-32
(a) Chemistry 1A-1B, 8, 9 or 5	16
(b) Physics 2A-2B and 3A-3B or 4A-4B	8
(c) Zoology 1A-1B	8
Trigonometry (if not taken in high school)	3
U. S. History and Government	4
Electives selected from the following groups	18

(a) Group I: 2 year-courses selected from

Economics 1A-1B
History 4A-4B, 8A-8B
Mathematics 2, 3A-3B
Political Science 1A-1B
Psychology 1-2
Sociology 1A-1B

(b) Group II: 1 year-course from Group IIA or any 2 semester courses from Group IIB

IIA

A year sequence of any foreign language
English 46A-46B, 74A-74B
Music 101-102
Philosophy 6A-6B

IIB

Art 2
Music 3A, 3B
Any two semesters of a foreign language, provided a minimum of 6 units have been completed in the same language.

ENGINEERING

All students who expect to complete engineering curricula at the University of California are required to complete the following general requirements:

Subject A (English A, 1A or 1B at Humboldt meets this requirement)	Units
U. S. History and Constitution	4
Physical Education	2
Electives chosen from at least two of the following groups:	12

1. English, Public Speaking
2. Foreign Language
3. Business Administration, Economics, Political Science
4. Anthropology, History, Psychology, Sociology
5. Biological Sciences
6. Fine Arts and Philosophy

Note: Students in Industrial, Agricultural, and Mechanical Engineering must select 3 units from group 1, and the 9 additional units from two of the other groups.

Attention is also called to the fact that admission to the College of Engineering will be based primarily on the results of an entrance examination, details of which may be learned by writing to the Dean of the College of Engineering, Berkeley, California.

Students may complete approximately two years of engineering work at Humboldt State College in the fields of civil, electrical, industrial, mechanical, and petroleum engineering, and at least one year in the fields of agricultural, metallurgical, mining engineering and economic geology.

PRE-FORESTRY

Subject A	Units
Botany 1A-1B -----	8
Chemistry 1A, 8 -----	8
Engineering 1A-1B -----	6
Economics 1A-1B, 40 -----	9
Geology 1A -----	3
Mathematics 3A-3B -----	6
Physics 2A-2B, 3A-3B -----	8
Physical Education -----	2
U. S. History and Constitution -----	4
Zoology -----	3
Choice of Public Speaking, English, or Philosophy -----	6

PRE-LEGAL

Many colleges of law now require a bachelor's degree as a basis of admission. Students who expect to study law are advised to secure a degree if possible, majoring in social sciences, English, speech, or selecting a group major.

Those who expect to enroll in a college of law requiring less than an A.B. Degree usually plan the lower division work to comply with the requirements for the Associate in Arts Degree at the University of California (see page 42) or with the requirements of a specific College of Law, many of which now require at least three years of pre-legal study.

PRE-LIBRARY SCIENCE

A good general education is the best basis for librarianship. Four years of college, followed by one or two years of professional study in an accredited library school, is the usual requirement. A student should plan his undergraduate course so as to acquire a good background in history, and in American, English and foreign literatures, and a working knowledge of at least two foreign languages, especially French and German. Study in the social sciences, psychology and education, and the physical sciences is important, and intensive study in some one field, such as chemistry, music, art, political science, education, or business is desirable.

PRE-MEDICAL

An A.B. Degree is desirable as a basis for admission to medical school, and wherever possible, students interested in medicine are advised to complete the requirements for the A. B. Degree with a major in pre-medical sciences. (See page 42.) This curriculum is designed to meet the requirements for an Associate in Arts Degree at the University of California, and the student who wishes to transfer after two or three years at Humboldt may plan his program to conform with those requirements (see page 42).

Pre-professional courses may also be arranged for dental assistants, chiropodists, medical technologists, laboratory technicians, occupational or physical therapists, and other related specialists.

PRE-MORTUARY SCIENCE

Two years of college work is required for admission to a college of mortuary science. A recommended program includes the following:

Subject A	Units
Art 1, 20A	5
Business Administration 14A-14B, 18, 118	12
English 1A-1B	6
Health and Hygiene 1, 160	5
Physical Education	2
Science	29
Anatomy 66	3
Bacteriology 1	5
Chemistry 1A-1B	10
Zoology 1A-1B, 160	11
Electives	4

PRE-NURSING

(See page 98.)

PRE-OPTOMETRY

Subject A	Units
Speech 1, 3	6
Foreign Language*	16
Chemistry 1A, 8	8
Bacteriology	5
Physics 2A-2B, 3A-3B	8
Anatomy 66	3
Mathematics 3A	3
Physical Education	2
Psychology 1-2	6
Zoology 1A	4
Year Courses*	6-12
U. S. History and Constitution	4

If the student has not had Mechanical Drawing in high school he should include it in his program as an elective.

* See Associate in Arts Degree requirements, page 42.

PRE-PHARMACY

Subject A	Units
English 1A-1B or Speech 1 and 3	6
Mathematics C and D (if not taken in high school), ¹ 1 or 3	3-9
Botany 1A	4
Zoology 1A-1B	8
Chemistry 1A-1B, 5, 8, 9	19
Physics 2A-2B, 3A-3B	8
Physical Education	2
U. S. History and Constitution	4

PRE-VETERINARY MEDICINE

Students who plan to study Veterinary Medicine should plan their programs to conform to the requirements of the school to which they expect to transfer. In general, one year of pre-professional work may be taken before transfer. This year's work should include:

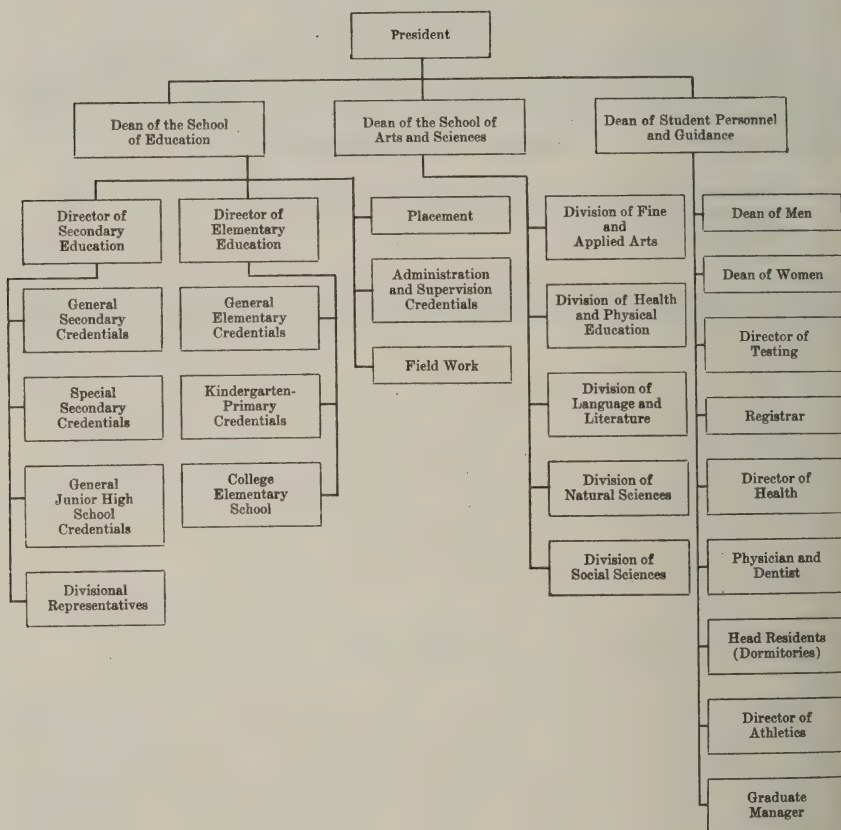
	Units
Chemistry 1A-1B	10
English 1A-1B	6
Social Science	6
Zoology	8

¹ Students who present matriculation credit in these subjects should take a three- or six-unit course in history, psychology, foreign language or advanced work in mathematics.

COURSES OF INSTRUCTION

ORGANIZATION

The following chart shows the functional organization of Humboldt State College:



As indicated by this chart, the curricular offerings of the College are organized into two main categories under the leadership of two academic deans, the Dean of Education, and the Dean of Arts and Sciences. The Dean of Education exercises general supervision over the courses offered in Education, and the entire teacher-education program, including the administration of the College Elementary School.

The Dean of the School of Arts and Sciences supervises the work of five divisions in Arts and Sciences; namely, the Divisions of Fine and Applied Arts, Health and Physical Education, Language and Literature,

Natural Sciences, and Social Sciences. Under these divisions, the fields of study are grouped as follows:

1. The Division of Fine and Applied Arts
 - a. Art
 - b. Home Economics
 - c. Industrial Arts
 - d. Music
 - e. Speech, Drama, and Radio
2. The Division of Health and Physical Education
 - a. Physical Education for men and women
 - b. Health and Hygiene
3. The Division of Language and Literature
 - a. English Language and Literature
 - b. Foreign Languages and Literature
 - c. Journalism
4. The Division of Natural Sciences
 - a. Biological Sciences
Anthropology, Bacteriology, Biology, Botany, Physiology and Anatomy, and Wildlife Management
 - b. Physical Sciences
Chemistry, Geology, Physics
 - c. Mathematics
 - d. Engineering
5. The Division of Social Sciences
 - a. Business Administration
 - b. Business Education
 - c. Economics
 - d. Geography
 - e. History
 - f. Philosophy
 - g. Political Science
 - h. Psychology
 - i. Sociology

EXPLANATORY NOTE

Lower division courses carry numbers between 1 and 99, inclusive. They are designed for freshmen and sophomores, but are open to juniors and seniors as well. They do *not* count as upper division work in any department.

Upper division courses carry numbers between 100 and 199, inclusive. They are open only to students who have attained upper division status and who have completed a lower division course or courses deemed preparatory by the department concerned. Lower division students are not usually admitted to upper division courses except in special cases with the consent of the instructor.

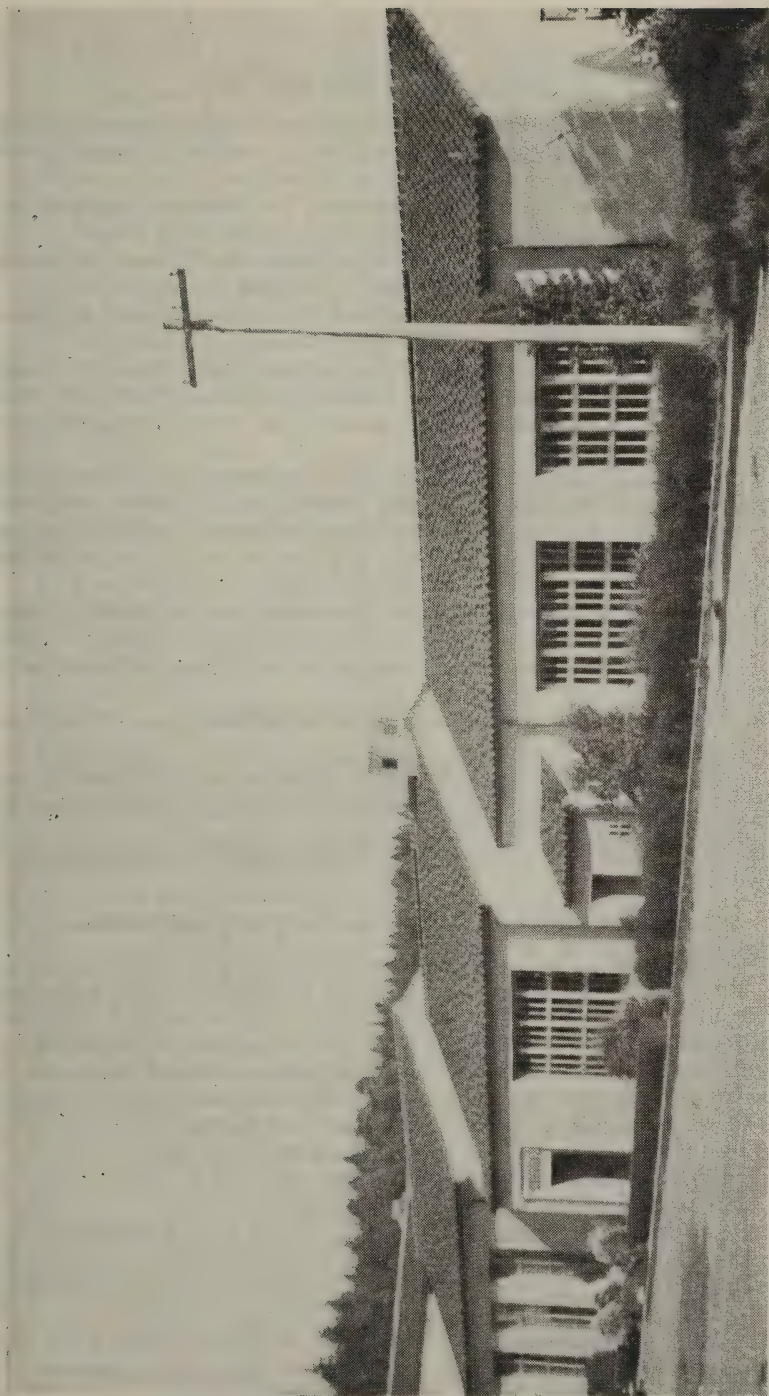
Graduate courses offered in fulfillment of requirements for the General Secondary Credential are given numbers between 200 and 299, and are open only to students who have been admitted to the graduate division.

Courses in directed teaching carry numbers between 300 and 399, inclusive. They are open only to upper division or graduate students.

Courses designated with a letter only (e.g., Mathematics C) are usually courses of high school level that are taught in college.

The semester in which a course is taught is indicated parenthetically after the title. Those courses designated "year" run consecutively through both the fall and spring semesters.

Because of varying exigencies from semester to semester in making up the schedule of classes, the instructor and time and place of meeting of each course of instruction are not given in the following descriptions. At the end of each semester a schedule of classes, containing such information for the following semester, is made up and mimeographed for distribution.



COLLEGE ELEMENTARY SCHOOL

SCHOOL OF EDUCATION

Professional curricula have been organized under the authority of the State Board of Education, leading to the following teaching credentials:

1. **KINDERGARTEN-PRIMARY**, authorizing the holder to teach in any kindergarten and in grades one to three of any elementary school.

2. **GENERAL ELEMENTARY**, authorizing the holder to teach in any elementary or junior high school through the eighth grade.

3. **JUNIOR HIGH SCHOOL**, authorizing the holder to teach in grades seven, eight, and nine of any elementary or secondary school.

4. **SPECIAL SECONDARY CREDENTIAL**, authorizing the holder to teach a special subject in elementary and secondary schools. Humboldt State College offers special secondary credentials in art, music, physical education, and home economics.

5. **GENERAL SECONDARY CREDENTIAL**, authorizing the holder to teach in the secondary schools and in grades seven and eight of the elementary schools. Secondary majors are offered in art, business education, English-speech, life and general science, music, physical education, social science, and speech-English.

Minors for the general secondary credential are available in many fields, listed on page 41.

This credential requires the completion of a year of work after receiving the bachelor's degree.

6. **ELEMENTARY SCHOOL SUPERVISION**, authorizing supervision of elementary schools.

7. **SPECIAL SUPERVISION**, authorizing supervision in a special subject field such as music, art, or physical education, in which the applicant holds a special secondary credential.

8. **ELEMENTARY ADMINISTRATION**, authorizing the administration of elementary schools.

ADMISSION TO CANDIDACY FOR TEACHING CREDENTIAL

Students seeking admission to candidacy for a teaching credential must file formal application for admission by the end of the sophomore year or as soon thereafter as possible. Application forms may be secured from the office of the Dean of the School of Education. A committee on credentials will study carefully the qualifications of each applicant, by means of appropriate tests, personal interviews, and other pertinent data. Candidates will be accepted who have met the following standards, based on the regulations of the State Board of Education:

1. **INTELLIGENCE**. All candidates are required to make a satisfactory score on a standard college aptitude test.

2. **SCHOLARSHIP**. Candidates are required to "demonstrate and maintain scholastic ability of not less than that indicated by a grade-point average of "C." A "C" average in all lower division work will be necessary for unqualified admission to candidacy for a credential.

3. **TYPE OF PROGRAM PURSUED**. The candidate must have completed two years of liberal arts education, as well as the courses prerequisite to the training for the type of credential sought.

4. **PROFESSIONAL APTITUDE, PERSONALITY, AND CHARACTER.** "The candidate shall demonstrate suitable aptitude and fitness for teaching and for adjustment to public school conditions." Evidence of this will be found in personality and character traits which are in keeping with the standards of the profession. Specific attention shall be directed to physical appearance, poise, dress, vitality, social attitude, co-operativeness, temperament, and integrity.

5. **PHYSICAL FITNESS.** The candidate must comply with the standards of physical fitness required for a teaching credential.

6. **SPEECH AND LANGUAGE USAGE.** Better than average proficiency in oral and written language is required.

7. **MANY-SIDED INTEREST.** "The candidate shall demonstrate diverse and well-balanced interests. He shall be able to understand and interpret his major interest and field of study in suitable relationship to all others."

8. **FUNDAMENTALS.** All candidates for a credential are required to demonstrate proficiency in the fundamental school subjects. A satisfactory score must be made on standard tests in: arithmetic, elementary science, handwriting, language usage, reading, social studies, and spelling.

9. **PROFICIENCY IN MAJOR FIELD.** No candidate for a secondary or junior high school credential will be approved without a written statement from his subject adviser verifying the candidate's ability and likelihood of teaching success in his major field.

GENERAL CREDENTIAL REQUIREMENTS

UNITS REQUIRED. For those credentials which may be granted concurrently with the A.B. Degree, 120 units are required. Not more than 40 units in Education or any one subject field may be applied toward the basic 120 units. For each additional credential in this group, 12 more units are required, with the further stipulation that if the basic course pattern can be satisfied with less than 12 additional units, the difference must be taken in electives outside the field of Education.

If a candidate already possesses an A.B. Degree, the minimum requirement is 24 units completed at this College. Of these 24 units, not more than 12 may be taken in extension.

UNITED STATES HISTORY AND CONSTITUTION. All candidates for credentials are required to pass satisfactorily a course or an examination in United States History and Constitution. "State law provides that the course in the Constitution must be taken in an accredited institution within the State of California.

CITIZENSHIP. Only United States citizens may become candidates for long-term teaching credentials. Aliens who have filed their first papers are eligible to apply for short-term credentials. Failure to complete the naturalization process within six months of the date of eligibility will result in the revocation of the credential. After an applicant has become naturalized, he may qualify for a long-term credential.

MAJORS AND MINORS. Candidates for the General Elementary and the Kindergarten-Primary Credentials must complete a major in Education and one minor. Candidates for the General Junior High School

Credential are required to complete a major and a minor in subject fields taught in junior high school. Candidates for the Special Secondary Credentials must complete a major in the special field and one minor. Candidates for the General Secondary Credential must complete a major and a minor in subjects taught in the high school. The special secondary and the general secondary majors require approximately 24 units of upper division work, and the secondary minor requires a minimum of 15 units, though departmental requirements often exceed this minimum. The list of available majors and minors is found on page 41.

SCHOLARSHIP. Candidates for teaching credentials must comply with the following scholarship requirements:

1. A grade of "C" or better must be earned in each required course in education. Students who fail to meet this requirement cannot be admitted to directed teaching.

2. An average grade of "C" or better in all college work is required for admission to Education 133 or 175.

3. Candidates for the General Secondary Credential must maintain an index of 1.5 on all work taken in the upper division and the major field and 1.75 on all work taken in the graduate year.

4. Only a grade of "+" (satisfactory), inc. (incomplete), or "F" (failure) will be given for directed teaching. A grade of "incomplete" indicates that the student may be allowed an additional time in which to meet the required standards. A grade of "F" indicates that the candidate is considered to lack the requisite qualities for successful teaching. The units earned in directed teaching do not figure in the calculation of the candidate's scholarship index.

COURSE REQUIREMENTS FOR CREDENTIAL CURRICULA

The courses listed below for the various credentials have been selected to meet the state and college requirements and to provide a strong background of general and professional preparation for teaching. In order to meet requirements for prerequisites, courses should be taken in the year indicated whenever possible. Some courses are available only once a year or once each two years. The student must be careful to take such courses whenever offered so as to avoid possible delay in obtaining a credential. Electives or substitutions should be selected only after consultation with the student's adviser.

<i>Requirements for the A.B. Degree with</i>	<i>Elementary Credential</i>	<i>Kind.-Prim. Credential</i>	<i>Junior H. S. Credential</i>
First Year			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Biol. 10A-10B—General Biology -----	6	6	6
Engl. 1A-1B—First-Year Reading and Composition	6	6	6
H. H. 1—Personal Hygiene-----	2	2	2
Music 10—Musicianship -----	3	3	3
Or. II—Orientation II-----	1	1	1
P. E. 5 or 15—Freshman Physical Activities-----	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
P. E.—Selected activity-----	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Soc. 1A-1B—Introduction to Sociology or			
Hist. 4A-4B—History of Western Civilization----	6	6	6
* Electives or Minor -----	5	5	5

* Candidates who have not passed elementary algebra and plane geometry in high school must enroll for subcollegiate, noncredit courses in these subjects, or pass an examination given by the Mathematics Department.

<i>Requirements for the A.B. Degree with</i>	<i>Elementary Credential</i>	<i>Kind.-Prim. Credential</i>	<i>Junior H. S. Credential</i>
Second Year			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Art 1—Art Structure.....	2	2	2
Geog. 5A—Introduction to Economic Geography.....	3	3	-
Music 60 or 65—Chorus or A Cappella Choir.....	1-2	1-2	-
P. E.—Selected activities.....	1	1	1
Phys. Sci. 5A-5B—Fundamentals of the Physical Sciences	6	6	6
Psych. 1—General Psychology	3	3	3
Spch. 1—Fundamentals of Speech.....	3	3	3
† Soc. Sci.—Economics, Political Science, or History	6	6	6
Electives or Minor.....	4-5	4-5 (or major)	9

† The student must include in his program fulfillment of the requirement in United States History and Constitution. See page 40.

Third Year			
Art 190—Elementary School Art.....	2	2	} Choose any two courses
Biol. 190—Elementary School Science.....	2	2	
I. E. 15—Elementary School Crafts or I. E. 51—Fundamentals of Industrial Education..	3	3	
Mus. 190—Elementary School Music.....	2	2	
P. E. 190—Elementary School Physical Education..	2	2	}
Educ. 113—Psychological and Social Foundations of Education	5	5	
Educ. 133A—Elementary School Curriculum (Grades 1-4)	-	4	
Educ. 133B—Elementary School Curriculum (Grades 5-8)	-	-	
Educ. 153—Audio-Visual Education	2	2	2
Educ. 195—The Teaching of Secondary School Sub- jects (Major field)	-	-	2
Engl. 178—Children's Literature	3	3	3
P. E. 191—Singing Games and Folk Dances.....	1	1	-
Electives or Minor or Major.....	8	4	9-10

Fourth Year			
Educ. 124—Philosophy of Education	2	2	-
Educ. 133A-B—Elementary School Curriculum	8	-	-
Educ. 137—Rural Education	2	-	-
Educ. 175—Core Course in Secondary Education.....	-	-	5
Educ. 191—The Kindergarten	-	2	-
Educ. 193—Art in the Kindergarten-Primary.....	-	2	-
Educ. 194—Music and Games in the Kindergarten- Primary	-	2	-
Educ. 320A—Directed Teaching—Grades 1-4.....	5	5	-
Educ. 320B—Directed Teaching—Grades 5-8.....	5	-	5
Educ. 321—Directed Teaching—Kindergarten-Pri- mary	-	5	-
Educ. 340A—Directed Teaching—Secondary.....	-	-	3
Electives or Minor or Major.....	8	12	17

Students are advised not to take the Junior High School Credential alone because of its limited authorization and because it cannot be used as a basis for an Administrative Credential. Candidates for a combination of the General Elementary and the Junior High School Credentials should meet the requirements for the General Elementary Credential and take in addition :

Education 195 (major field) -----	2 units
Education 175 -----	5 units
Education 340A -----	3 units
Electives outside the field of Education to total the twelve units required for an additional credential.	

Since completion of a major and a minor in junior high school fields is required, it may be necessary for the student to use a portion of his elective units in meeting these requirements. At least one summer session in addition to the four years may be needed to complete requirements for the two credentials.

THE SPECIAL SECONDARY CREDENTIALS

These credentials represent a high degree of specialization in a particular subject field at both the elementary and the secondary levels. The holder must have training and competence to qualify him for teaching his subject at either level. Specific requirements for these credentials are given under the respective divisions as follows :

Division of Fine and Applied Arts

Special Secondary Credential in Art, page 65.

Special Secondary Credential in Home Economics, page 70.

Special Secondary Credential in Music, page 77.

Division of Health and Physical Education

Special Secondary Credential in Physical Education, page 91.

The student begins his professional training in the junior year. It is recommended that the professional courses in Education be taken in the following sequence :

Third Year

Educ. 113—Psychological and Social Foundations of Education-----	5 units
Educ. 153—Audio-Visual Education -----	2 units
Electives, major or minor-----	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education-----	5 units
Educ. 320C—Directed Teaching in the Elementary School (Major Field)---	2 units
Educ. 340A—Directed Teaching in the Secondary School (Major Field)---	3 units
Educ. 195—The Teaching of (Major Field)-----	2 units
Electives, major or minor-----	18 units

Candidates for a special secondary credential are urged to secure a general credential for either elementary or secondary teaching in addition to the special credential. The requirements for the General Secondary Credential are for the most part a continuation of the work done for the special credential. A flexible program can be arranged to permit the candidate to qualify for a General Elementary Credential in addition to the Special Secondary. Information on this program may be secured from the office of the Dean of Education.

THE GENERAL SECONDARY CREDENTIAL

The program for this credential must provide a broad, cultural background, plus professional education for effective secondary school training. Since the requirements are somewhat more exacting than for certain other credentials, they are summarized below.

Summary of General Requirements

1. Possession of an approved bachelor's degree from a recognized college or university.
2. A scholarship average of 1.5 for all work taken in the upper division and in the major field.
3. Fulfillment of the requirement in United States History and Constitution.
4. Formal admission to candidacy for the credential. Application should be made at the end of the sophomore year. Students who transfer to Humboldt State College during their junior year or later should apply during their first semester of residence. Candidacy is subject to continuous review until the credential is earned.
5. Admission to graduate standing. Formal application for graduate standing must be made and admission approved before the student can matriculate for the credential.
6. Completion of a graduate year of two semesters or the equivalent, with at least 24 units of work beyond the bachelor's degree with a grade point average of 1.75 or better, including at least 8 units in courses of strictly graduate character.
7. Completion of a teaching major with 18 to 24 units of upper division work.
8. Completion of a teaching minor with at least 6 units of upper division work and a total of 15 units or more.
9. Completion of 26 units in courses in professional education with a grade of "C" or better, at least 6 of which must be of strictly graduate character, and including at least 6 units of directed teaching in the major and minor fields.
10. Completion of at least 24 units of work in residence at Humboldt State College, including at least 12 units of the 24 required in the fifth year.

Majors are available for the General Secondary Credential in the following fields:

Division of Fine and Applied Arts

Art, page 65.

Music, page 77.

Speech-English, page 83.

Division of Health and Physical Education

Physical Education, page 91.

Division of Language and Letters

English-Speech, page 101.

Division of Natural Sciences

Life and General Sciences, page 110.

Division of Social Sciences

Business Education, page 128.

Social Sciences, page 124.

Detailed requirements are given under the appropriate instructional divisions as indicated above. It is recommended that the professional courses in Education be taken in the following sequence:

Third Year

Educ. 113—Psychological and Social Foundations of Education	5 units
Educ. 153—Audio-Visual Education	2 units
Electives or major or minor	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education	5 units
Educ. 195—The Teaching of Secondary School Subjects (Major field)	2 units
Completion of Pre-secondary requirements and teaching minor	23 units

Fifth Year

Educ. 265—Guidance in Education	2 units
Educ. 275—Seminar in Secondary Education	2 units
Electives chosen from:	
Educ. 212—Psychology of Adolescence	} 2 units
Educ. 215—Evaluation of Learning	
Educ. 224—History and Philosophy of Education	
Educ. 299—Special Problems in Education	
Educ. 340A-340B—Directed Teaching	6 units
Graduate course in major field	3-6 units
Major, minor, or electives	9-6 units
Total	24 units

DESCRIPTION OF COURSES**Upper Division****110. Educational Psychology 2 units**

Application of the principles of psychology to education. Special attention to the results of scientific research and experimentation in the psychology of learning, personality development, and adjustment.

Prerequisite: Psychology 1.

Two one-hour periods per week.

111. Child Growth and Development 2 units

A study of the eugenics and principles governing the mental and physical development of the normal child from birth to maturity. Educational methods and practices in the promotion of the physical and mental health of the child.

Prerequisite: Psychology 1.

Two one-hour periods per week.

113. Psychological and Social Foundations of Education 5 units

A foundation course presenting in a unified manner the materials usually included in educational psychology, educational sociology, and growth and development of the learner. A careful study will be made of the role of education in society, together with the learner's physical, intellectual, and emotional growth, his personality development and adjustment, his learning processes, and his interaction with other individuals and groups. Opportunity will be provided for making case studies, observation of teaching, and participation in school situations.

115. Measurement in Education 2 units

A course dealing with the selection, use, and interpretation of tests in pupil diagnosis and appraisal; construction and validation of informal objective tests; use of simple statistical procedures in interpretation of scores; practice in administering and scoring tests.

124. Philosophy of Education 2 units

A study of the major theories of education with emphasis on their contributions to teaching in the elementary school. The present interpretations of these theories in the light of democratic ideals are stressed. The student will be given an opportunity to do critical thinking of a type that will strengthen the foundations of his own educational philosophy and his understanding of the educational procedures that are currently practiced.

Two one-hour periods per week.

125. The Public School System (summer) 3 units

133A-133B. Elementary School Curriculum¹ 8 units

This course gives prospective teachers a comprehensive overview of teaching in the elementary school. It covers such topics as courses of study; units of work; methods; materials; discipline, etc.

133A—Lower grades.

133B—Upper grades.

The time spent will be approximately equivalent to six hours a week of class work with four hours of observation and participation in classroom procedure.

137. Rural Education 2 units

A course designed to develop an understanding of the place of the school in the life of rural communities, ranging from the open country to small cities at the heart of rural areas. Special emphasis on school organization, records, and legal and professional relationships affecting the rural teacher.

Two one-hour periods per week.

139. Advanced Elementary School Curriculum (summer) 3 units

140A. Administration of Elementary Schools (summer) 2 units

140B. Field Problems in Administration (summer) 2 units

141A. Supervision in Elementary Schools (summer) 2 units

141B. Field Problems in Supervision (summer) 2 units

145. School Finance (summer) 2 units

148. Legal and Professional Aspects of Education (summer) 2 units

153. Audio-Visual Education (fall) 2 units

A study of the vast array of educational resource materials available to teachers. Techniques of preparation, selection, use, and evaluation of materials. Opportunities provided for developing skill in care and operation of standard equipment.

165. Pupil Personnel and Guidance (summer) 2 units

175. Core Course in Secondary Education¹ 5 units

The core course includes a study of the legal and professional obligations of the secondary school teacher; the principles, practices, and philosophy of secondary education; the secondary school curriculum; the methods used in directing the learning situation, and classroom organization and management. Observation of secondary schools and participation in school activities will be required.

Prerequisite: Education 113.

Five one-hour periods per week.

190. The Teaching of Elementary School Subjects 2 units

A series of courses dealing with the teaching of special subjects taught in the elementary school. Each course will carry two units of credit and will emphasize sources and utilization of materials at various grade levels. Observation and experience in preparing teaching materials will be included.

These courses should be taken prior to Directed Teaching, and include the following:

Educ. 190A. Art Education (see also Art 190)

Educ. 190M. Elementary School Music (see also Music 190)

Educ. 190PE. Elementary School Physical Education (see also P. E. 190)

Educ. 190S. Elementary School Science (see also Biol. 190)

191. The Kindergarten 2 units

A course designed to develop basic understandings essential for organizing and conducting a sound kindergarten program. Areas to be covered include: characteristics of the four- and five-year old, materials of instruction, dramatic play, health, behavior problems, development of reading and number readiness, and work with parents. Should be taken prior to directed teaching in the kindergarten (Education 321).

¹ See scholarship standards, page 54.

†193. Art in the Kindergarten-Primary**2 units**

This course is designed to give understanding and experience in the theory and technique of teaching art in a modern kindergarten-primary program. The student will work with a variety of mediums and learn how to use them functionally in the classroom. The creative and developmental aspects of art experience of children will be emphasized. Should be taken prior to directed teaching in the kindergarten (Education 321).

†194. Music and Games in the Kindergarten-Primary**2 units**

This course provides theory and experience in teaching music from a creative approach. The student becomes acquainted with extensive materials for singing, rhythms, games, and listening.

195. The Teaching of Secondary School Subjects**2 units**

Professional courses in the teaching of the major and minor fields at the secondary level. Each course will carry two units' credit and will deal with the objectives, materials, and special procedures involved in teaching that field. Observation and experience in preparing teaching materials will be included.

These courses will be taken prior to or concurrently with Directed Teaching.

The numbers and titles of these courses, to be offered as needed, are :

- Educ. 195A. The Teaching of Art
- Educ. 195B. The Teaching of Business Education
- Educ. 195E. The Teaching of English
- Educ. 195HE. The Teaching of Home Economics
- Educ. 195HH. The Teaching of Health and Hygiene
- Educ. 195M. The Teaching of Music
- Educ. 195Ma. The Teaching of Mathematics
- Educ. 195S. The Teaching of Science
- Educ. 195SS. The Teaching of Social Studies
- Educ. 195Sp. The Teaching of Speech
- Educ. 195PE. The Teaching of Physical Education

199. Special Problems in Education

Research in Education to be carried on under the direction of the College. Credit to be arranged.

Graduate Division**212. Psychology of Adolescence (fall)****3 units**

(See Psychology 212, page 143.)

215. Evaluation of Learning**2 units**

A course dealing with the selection, use, and interpretation of formal and informal methods of evaluating learning ; use of simple statistical procedures in the interpretation of results ; and practice in administering evaluation instruments.

Two one-hour periods per week.

224. History and Philosophy of Education**2 units**

A study of the development of the major theories of education, with their contributions and applications to modern educational procedures. The student is afforded opportunities to evaluate critically the contributions of the past in developing an understanding of education in a democracy.

Two one-hour periods per week.

265. Guidance in Education**2 units**

Advanced study of the scientific principles involved in assisting the student in the formulation and acceptance of adequate and appropriate personal, educational, and vocational objectives ; a critical study of the bases of individual differences and of appropriate educational adjustments ; organization and use of cumulative personnel data in guidance procedures.

† Given if sufficient demand.

275. Seminar in Secondary Education**2 units**

An advanced course in secondary education dealing with the problems of teaching in and administering the secondary school; recent reports of national professional groups; and newly developed research in this field. The course is open to all graduate students who have had Education 113 and 175 or their equivalents.

Two one-hour periods per week.

299. Special Problems in Education**2-4 units**

Independent graduate level research on special problems. Particularly adapted to experienced teachers.

DIRECTED TEACHING

Directed Teaching is one of the most important stages in the preparation of a teacher. It provides pre-service experience in organizing and managing classroom situations, directing and appraising learning activities, keeping school records, and participating in the community activities of the school.

The work of the student teacher is carried on through the stages of observation, participation, and responsible teaching under the guidance of supervising teachers and supervisors carefully selected by the School of Education and the various instructional divisions of the College. Most of the directed teaching at the elementary levels is done in the College Elementary School, while cooperative arrangements with secondary schools in the college neighborhood make possible a wide variety of outstanding teaching situations at these levels.

All students will be expected to spend at least three hours per week throughout a semester for each unit of credit in Directed Teaching. A part of this time will be devoted to preparation of teaching materials and to conferences with supervisors.

This work involves professional responsibilities that must be met promptly and regularly, and students are not expected to participate in extra-curricular activities or register for course work that will in any way interfere with their directed teaching.

ADMISSION TO DIRECTED TEACHING

1. During the semester preceding the student's registration for Directed Teaching, he should file an application for an assignment in the office of the director of Secondary Teacher Education (for Education 340A-340B), or in the office of the Director of Elementary Teacher Education (for all elementary assignments).

2. Applicants shall not be deemed eligible for assignment to Directed Teaching unless they have met the stated prerequisites and have maintained satisfactorily the standards prescribed for admission to the credential program. See page 54.

320A-320B. Directed Teaching in the Elementary School¹**10 units**

Students teach under supervision in an elementary school for one semester for the General Elementary Credential. Taken during the same semester, each half requiring nine weeks and carrying five units of credit.

320A—Lower Grades (Prerequisite: 133A)

320B—Upper Grades (Prerequisite: 133B)

¹ See scholarship requirements, page 54.

320C. Directed Teaching in the Elementary School (Special Fields)¹ 2 units

This course is offered to meet the needs for directed teaching at the elementary level of candidates for the special secondary credentials in their respective fields. It is under the supervision of the Director of Elementary Teacher Education and the supervisors from the instructional divisions.

Prerequisite: Education 113 and the appropriate "190" course in the major field.

321. Directed Teaching in the Kindergarten¹ 5 units

Students teach under supervision in the College Elementary School 15 hours per week for one semester for the special Kindergarten-Primary Credential. This time is devoted to conferences, preparation of materials, and teaching.

Prerequisite: Education 191, 193, 194, and satisfactory skill in piano.

340A-340B. Directed Teaching in the Secondary School¹ 6 units

Required of candidates for secondary credentials. Each student will be assigned to a selected supervising teacher in a cooperating secondary school, where he will gradually assume responsibility for two teaching assignments in his major and minor fields, together with other school activities.

Supervision of the student's work is shared by the supervising teacher and his college supervisors.

Each teaching assignment carries three units of credit and requires five hours of teaching per week during a semester. Candidates for a General Secondary Credential will normally take directed teaching in the graduate year.

Prerequisite: Education 175 and 195.

350. College Teaching in Special Fields 2 units

Students assist in college classes under the supervision of the regular instructors in these courses.

Prerequisites: Education 320C or 340A and recommendation of the Chairman of the Division.

360. Advanced Teaching 2 units

This course provides an opportunity for students to do advanced teaching, which may include work with special subjects or experimentation with methods of teaching.

Prerequisite: Prior credit in Directed Teaching or teaching experience.

ADMINISTRATIVE CREDENTIAL CURRICULA

An Elementary School Administration Credential is required for the position of principal of a school of more than five teachers. A supervisor devoting more than half-time to supervision of instruction is required to have an Elementary School Supervision Credential.

General requirements for these two credentials are the possession of a valid General Elementary Credential, and two years of successful teaching experience in the elementary school.

For the Elementary School Administration Credential, it is necessary to complete 30 semester units of upper division or graduate work in addition to the holding of the General Elementary Credential, or training which an institution approved or accredited to recommend for the Elementary School Administration Credential certifies as fulfilling institutional requirements for a full year of work in addition to the holding of the General Elementary Credential.

For the Elementary School Supervision Credential, the requirement is 24 semester units of upper division or graduate work in addition to the holding of the General Elementary Credential.

¹ See scholarship requirements, page 54.

Course requirements for these credentials are as follows :

	<i>Administration</i>	<i>Supervision</i>
Education 140A. Administration of Elementary Schools-----	2	2
Education 140B. Field Problems in Administration-----	2	-
Education 141A. Supervision in Elementary Education-----	2	2
Education 141B. Field Problems in Supervision-----	-	2
Education 139. Advanced Elementary School Curriculum---	3	3
Education 115. Measurement in Education -----	2	2
Education 125. The Public School System -----	3	-
Education 145. School Finance -----	2	-
Education 148. Legal Aspects of Education-----	2	-
Education 165. Pupil Personnel and Guidance-----	2	2
Electives chosen to round out the student's professional and general education, minimum of-----	10	11
Minimum total -----	30	24

RESIDENCE REQUIREMENT. One-half of the work for these credentials must have been taken at Humboldt State College, and at least 12 units in residence (not extension) here.

The Special Supervision Credential may only be granted to holders of Special Secondary Credentials in a given field. See the Registrar for requirements.

ORIENTATION

2. Orientation II (fall, spring)

1 unit

The purpose of this course is to help the student determine early in his college career whether or not he should pursue the teacher education curriculum. An attempt is made to point out the trends in secondary and elementary education, and considerable time is devoted to discussing education as a profession.

Two one-hour class periods per week plus special assignments.

3. Orientation III (fall, spring)

1 or 2 units

This course is planned to enable the prospective teacher to keep in touch with professional education during his pre-professional years. The student will be assigned to a teacher at a grade level of his choice in a school in the vicinity. He will serve as assistant to the teacher, participating in the activities of the room and rendering whatever assistance is needed. From three to five hours per week will be required, depending on the credit desired. Applicable as elective credit. May be repeated for credit with consent of instructor.

Prerequisite : Orientation II or consent of instructor.

SCHOOL OF ARTS AND SCIENCES

The Division of Fine and Applied Arts

Art
Home Economics
Industrial Education

Music
Speech and
Dramatics

OBJECTIVES

The objectives of the Division of Fine and Applied Arts are to provide:

1. The opportunity for each student to attain an understanding and appreciation of the vital practical and aesthetic art opportunities and issues of the day through study and participation in the activities within the realm of fine and applied arts, encouraging each one to do the work best suited to develop his powers and to satisfy his interests.
2. A "general education" background in this field for those training to become teachers in the schools of the State.
3. Curricula leading to:
 - a. General Secondary Credential with majors in Art, Music, and Speech-English, enabling the student to teach in the secondary schools of the State. This program involves a year of graduate study.
 - b. The A.B. Degree with Special Secondary Credentials in
 - (1) Art
 - (2) Home Economics
 - (3) Musicauthorizing the holder to teach these special subjects in the elementary and secondary schools of California
 - c. The A.B. Degree with liberal arts majors in
 - (1) Art, for the student interested in further specialized work in Art, for personal or vocational objectives.
 - (2) Home Economics, for those students desirous of developing proficiency in homemaking, of employment in nonteaching homemaking fields, or of carrying on advanced study in home economics.
 - (3) Music, for the student interested in a nonteaching career in music or in advanced specialization in this field.
 - (4) Speech, with differentiated majors in Speech-English, Radio-Speech, or Speech and Dramatics, for students interested in careers in radio or the theater.
 - (5) Allied Arts, for students interested in acquiring a well-ordered knowledge of our cultural development for the intelligent enrichment of everyday living.
 - d. The A.B. Degree with Junior High School majors in Art, Home Economics, Industrial Education, Music, Speech and Dramatics, to qualify the student to teach in the junior high schools of the State.
4. Minors in Art, Home Economics, Industrial Education, Music (instrumental and vocal), Speech and Dramatics, and Radio.
5. Courses which partially fulfill the requirements for the Special Secondary Speech Correction Credential and the Special Secondary Credential in Industrial Education.
6. Terminal courses in drafting and photography for students interested in two-year programs which are vocational in character.
7. A variety of courses in the Fine and Applied Arts for students who wish to take their lower division work at Humboldt State College in preparation for a professional curriculum to be completed at another institution.

REQUIREMENTS FOR THE A.B. DEGREE IN ALLIED ARTS

This curriculum is a group major, developed through the cooperation of the entire Division of Fine and Applied Arts to provide a flexible pattern for a broadly cultural program that will contribute toward the intelligent enrichment of everyday life.

Lower Division

Elementary Algebra and Plane Geometry (if not taken in high school)	
Social Sciences (see page 39)	12 units
Natural Sciences (see page 39)	12 units
English 1A-1B	6 units
Psychology 1	3 units
Physical Education	2 units

Lower division prerequisites in the three fields of the student's choice for major emphasis.

Upper Division

Thirty-six units in three fields with not less than six nor more than 18 in any one field. Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page 40), and in one additional field to meet the minimum requirements of the State for a minor (see page 41).

Minimum lower division required	60 units
Minimum upper division required	40 units
Total units required	120 units

Scholarship Requirement: "C" average in the major in addition to the requirement of a "C" average in all work undertaken.

ART

<i>Requirements for the A.B. Degree With Major in Art</i>	<i>Liberal Arts *</i> (Without a Teaching Credential)		
	<i>General Secondary Credential</i>	<i>Special Secondary Credential</i>	
Lower Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Art 2—Art History and Appreciation	3	3	3
Art 10—Design	3	3	3
Art 20A—Fundamentals of Drawing <i>or</i> 21A—Drawing and Composition	3	3	3
Art 25—Color	3	3	3
Art 27A—Water Color Painting <i>or</i> 28A—Oil Painting	3	3	3
Art 40 <i>or</i> 41—Crafts	3	3	3
Art 45—Lettering	3	3	3
Engl. 1A-1B—First Year Reading and Composition	6	6	6
Phys. 15—Physics of Sound and Color	3	3	3
Nat. Sci.—Electives (See page 39)	9	9	9
Or. II—Orientation II	1	1	—
P. E.—Activities (Including P. E. 5 or 15)	2	2	2
Psych. 1—General Psychology	3	3	3
Soc. Sci.—(Including one-year course) (See page 39)	12	12	12
Restricted Electives—(Chosen from Foreign Lan- guage, Philosophy, Speech, Music, or English 46A-46B or 74A-74B)	6	6	6
Fulfillment of requirement in United States His- tory and Constitution. (See page 40.)			
Math A-B—Elementary Algebra and Plane Geom- etry if not taken in high school.			
Completion of lower division requirements for a minor. (See lists on page 41.)			

	<i>General Secondary Credential</i>	<i>Special Secondary Credential</i>	<i>Liberal Arts * (Without a Teaching Credential)</i>
<i>Requirements for the A.B. Degree With Major in Art</i>			
Upper Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Art 103—Advanced Appreciation -----	3	3	3
Upper Division Art Electives-----	16	16	21
Educ. 113—Psychological and Social Foundations of Education -----	5	5	-
Educ. 153—Audio-Visual Education -----	2	2	-
Educ. 175—Core Course in Secondary Education-----	5	5	-
Educ. 190A—Elementary School Art-----	2	2	-
Educ. 195A—The Teaching of Art-----	2	2	-
Educ. 320C—Directed Teaching—Elementary School -----	-	2	-
Educ. 340A—Directed Art Teaching—Secondary School -----	-	3	-
Completion of upper Art division requirements for a minor.			
Electives to total-----	120	120	120
Total upper division required-----	40	40	40
Total required outside field of Art-----	60	80	60
Scholarship Requirements			
In all work taken-----	1.00	1.00	1.00
In major and minor-----	1.00	1.00	1.00
In each Education course taken-----	1.00	1.00	
For admission to Graduate Division :			
In major -----	1.5		
In all upper division work taken-----	1.5		

Graduate Year (General Secondary Only)

Art 299—Special Problems in Art.....	3
Educ. 265—Guidance in Education.....	2
Educ. 275—Seminar in Secondary Education.....	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Elective in Education (Graduate Course).....	2
Major or minor or electives (Upper Division or Graduate courses) to total at least.....	24
Scholarship Requirement (all work in the Graduate Year)	1.75

* The student who expects to transfer to another institution for upper division work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

TWO-YEAR TERMINAL CURRICULUM IN PHOTOGRAPHY**RECOMMENDED SEQUENCE****Freshman Year**

Sem. 1 Sem. 2

Art 1 (Art Structure)	2	-
Art 10 (Design)	-	3
Art 45 (Lettering)	3	-
Art 50 (Elementary Photography)	-	2
Chemistry 1A (Inorganic)	5	-
English 1A-1B (Reading and Composition)	3	3
Health & Hygiene 1 (Hygiene)	-	2
Social Science	3	3
P. E. (Activities)	$\frac{1}{2}$	$\frac{1}{2}$
Elective	-	2
	16$\frac{1}{2}$	15$\frac{1}{2}$

Sophomore Year		<i>Sem. 1</i>	<i>Sem. 2</i>
Art 2 (Art History)	-----	3	—
Art 51 (Advanced Photography)	-----	2 or 3	—
B.A. 2A (Typewriting)	-----	—	2
B.A. 14A (Accounting)	-----	3	—
Jr. 29 (Press Photography)	-----	1	—
P. E. (Activities)	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 2A-2B (General Physics Lectures)	-----	3	3
History 70 (U. S. History)	-----	2	—
Pol. Sci. 51 (American Constitutional Government)	-----	—	2
Psychology 1 (General Psychology)	-----	—	3
Speech 1 (Fundamentals of Speech)	-----	—	3
Speech 25A (Dramatic Workshop—Lighting)	-----	—	2
		14 $\frac{1}{2}$	15 $\frac{1}{2}$

REQUIREMENTS FOR

<i>Junior High School Major</i>		<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower division	12 units of lower division Art	6 units of lower division Art	10 units of lower division Art, including Art 1, 2, 10, and 25
Upper division	12 units of upper division Art (To be selected in consultation with the instructor)	6 units of upper division Art	8 units of upper division Art, including Art 103, and 5 units in specialized art subject courses
Total units required	24 units	12 units	18 units

Additional requirements for the Junior High School Credential are given in detail on pages 54-55.

A liberal arts group major which includes Art may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

DESCRIPTION OF COURSES**Lower Division****1. Art Structure****2 units**

Introduction to art through a series of assigned experiments embracing the major divisions of the space art fields. This course is designed to give the student a broad general view of the fields of artistic expression. Art majors not eligible.

Two one-hour periods per week.

2. Art History and Appreciation**3 units**

A historical study of the development of art from pre-historical times to the Renaissance.

Three one-hour periods per week.

3. Art Appreciation**3 units**

See Art 103.

10. Design**3 units**

A study of the elements of design and their applications to the commercial and fine art fields.

Three one-hour periods per week.

20A-20B. Fundamentals of Drawing**3-3 units**

Training in the fundamentals of drawing, perspective, form, space organization, and composition, using various materials and techniques.

Three two-hour periods per week.

- 21A-21B. Drawing and Composition** 3-3 units
The study of form and composition from the human figure and landscape.
Three two-hour periods per week.
- 22. Nature Drawing** 1 unit
Precision drawing in varied media from objects in nature. Adapted to the needs of botany, pre-medical and other science students.
One two-hour period per week.
- 25. Color** 3 units
An analysis and use of the phenomena of pigmentary colors. This course is designed to prepare the student for further work in painting, design, interior decoration, and dress design.
Three two-hour periods per week.
- 27A-27B. Water Color Painting** 3-3 units
The study of water color painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.
Three two-hour periods per week.
- 28A-28B. Oil Painting** 3-3 units
The study of oil painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.
Three two-hour periods per week.
- 30. Art Anatomy** 3 units
Analysis of the skeletal and muscular structure of the human figure in terms of action, form, and methods of representation with a view to preparing the student for advanced drawing, painting, and sculpture.
Three one-hour periods per week.
- 32. Sculpture (spring)** 3 units
The study of sculpture and methods through practical experiments by means of simple sculpture problems. Work will be executed in wood, cement, clay, plaster, and other materials.
Prerequisite: Art 30.
- 40. Crafts (fall)** 3 units
Introduction to craft methods through problems in leather, book binding, and other projects. Course content is adapted to the needs of the class.
Three one-hour periods per week.
- 41. Crafts (spring)** 3 units
Introduction to craft media and methods through problems in block printing, silk screen, and stencilling.
Three one-hour periods per week.
- 45. Lettering** 3 units
Practice in the use of lettering tools, the study of basic alphabets, and an introduction to the principles of advertising layout.
Three one-hour periods per week.
- 50. Elementary Photography (spring)** 2 units
Lectures on the optical principles, the chemistry of printing and developing, the technique of exposure. Laboratory work includes practice in dark-room techniques. Limited to 15 students.
One one-hour lecture and one three-hour laboratory period per week.
- 51. Advanced Photography (fall, spring)** 2 or 3 units
Qualified students undertake work along various specialized lines.
Prerequisite: Art 50 and consent of the instructor.
Hours to be arranged.

80. Art Workshop

1-3 units

A course in which students may work in areas of their own choosing under the supervision of the art faculty. Open to all students, with consent of the instructor.

Upper Division

103. Advanced Appreciation

3 units

A course in art appreciation beginning in the 18th Century and extending into contemporary times. The space arts are correlated with the other arts by means of listening periods (recordings), slide lectures, and related reading. Students who are not majoring in art may take the course without its prerequisites. They may take it either as a lower division class by registering for Art 3 or as an upper division class by registering for Art 103.

Three one-hour periods per week.

120A-120B. Advanced Drawing

3-3 units

Continuation of the study of form and composition in still life, figure, and landscape.

Prerequisite: Consent of instructor.

Two two-hour periods per week.

121A-121B. Advanced Drawing and Composition

3-3 units

Continuation of the study of figure and landscape.

Three two-hour periods per week.

127A-127B. Advanced Painting

1, 2, or 3 units

The student will work in a medium of his own choosing, under the supervision and criticism of the instructor. Problems will include still-life, landscape, and figure construction.

Prerequisite: Consent of the instructor.

Date, time and place to be arranged with the instructor.

132. Advanced Sculpture (spring)

3 units

Prerequisites: Art 30 and 32.

140. Advanced Crafts

3 units

Prerequisites: Art 10 and 40.

141. Advanced Crafts

3 units

Prerequisites: Art 10 and 41.

145. Advanced Lettering

3 units

A study of techniques and methods used in showcard writing and fine lettering for reproduction. Course problems include layouts in color with illustrations.

Prerequisites: Art 10, 20A or 21A, and 45.

148. Ceramics

2 units

See I. E. 105.

180. Art Workshop

1-3 units

Open to art majors and minors with upper division standing. Students may work in the areas of their own choosing under the supervision of the art faculty.

190. Elementary School Art

2 units

(See Education 190A).

For prospective teachers. Theory and practice in the use of art in the elementary schools. Covers the philosophy of art, and practical exercises in its uses from kindergarten through junior high school. (Not applicable toward a minor in art.)

Two one-hour periods per week in addition to one activity period, and observation to be arranged.

Graduate Division

299. Special Problems in Art

3 units

HOME ECONOMICS

<i>Requirements for the A.B. Degree With Major in Home Economics</i>	<i>Special secondary credential</i>	<i>Liberal Arts* (without a teaching credential)</i>
Lower Division		
	<i>Units</i>	<i>Units</i>
H.E. 1A—Clothing Construction	3	3
H.E. 1B—Clothing Construction	3	-
H.E. 7—Textiles	2	2
H.E. 10A—Food Study	3	3
H.E. 10B—Food Study	3	-
H.E. 20—Nutrition	2	2
Art 1—Art Structure	2	2
Art 2—Art History and Appreciation	3	3
Art 25—Color	3	3
Engl. 1A-1B—First Year Reading and Composition	6	6
H.H. 1—Personal Hygiene	2	2
H.H. 50—Home Nursing	2	-
Chem. 1A—General Chemistry	5	5
Chem. 8—Organic Chemistry	3	3
Bact. 1—General Bacteriology	5	5
Or. II—Orientation II	1	-
P.E. Activities (including P.E. 15)	2	2
Psych.—General Psychology	3	3
Econ. 1A—Principles of Economics	3	3
Soc. 1A-1B—Introduction to Sociology	6	6
Soc. Sci.—Electives (See page 39)	3	3
Fulfillment of requirement in United States History and Constitution. (See page 39.)		
Math. A-B—Elementary Algebra and Plane Geometry, if not taken in high school.		
Completion of lower division requirements for a minor. (See list on page 41.)		
Lower Division electives to total		60
Upper Division		
H.E. 111—Advanced Meal Planning and Serving	2	-
Upper Division Home Economics Electives	22	24
Educ. 113—Psychological and Social Foundations of Education	5	-
Educ. 153—Audio-Visual Education	2	-
Educ. 175—Core Course in Secondary Education	5	-
Educ. 195HE—The Teaching of Home Economics	2	-
Educ. 320C—Directed Teaching—Elementary School Home Economics	2	-
Educ. 340A—Directed Teaching—Secondary School Home Economics	3	-
I.E. 103—Art of House Design	3	-
Physiol. 101—Human Physiology (recommended)	(5)	(5)
Completion of upper division requirements for a minor.		
Electives to total	120	120
Total upper division required	40	40
Total required outside field of Home Economics	80	60
Scholarship Requirements:		
In all work taken	1.00	1.00
In major and minor	1.00	1.00
In each Education course taken	1.00	-

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

REQUIREMENTS FOR

<i>Junior High School Major in Home Economics</i>	<i>Minor in Home Economics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	Lower Division
H.E. 1A----- 3 units	H.E. 1A----- 3 units	H.E. 1A----- 3 units
H.E. 7----- 2 units	H.E. 7----- 2 units	H.E. 7----- 2 units
H.E. 10A-10B_ 6 units	H.E. 11----- 2 units	H.E. 11----- 2 units
H.E. 11----- 2 units	H.E. 20----- 2 units	H.E. 20----- 2 units
H.E. 20----- 2 units	Upper Division	Upper Division
Upper Division	9 units chosen from :	11 units chosen from :
12 units chosen from :	H.E. 101A__ 3 units	H.E. 101A__ 3 units
H.E. 101A__ 3 units	H.E. 130___ 3 units	H.E. 130___ 3 units
H.E. 130___ 3 units	H.E. 140___ 3 units	H.E. 140___ 3 units
H.E. 140___ 3 units	H.E. 150___ 2 units	H.E. 150___ 2 units
H.E. 150___ 2 units	H.E. 160___ 3 units	H.E. 160___ 3 units
H.E. 160___ 3 units	H.E. 165___ 3 units	H.E. 165___ 3 units
H.E. 165___ 3 units	---	Educ. 195HE_ 2 units
Total units required -----27 units	Total units required -----18 units	Total units required -----20 units

Additional requirements for the Junior High School Credential are given in detail on pages 54-55.

A liberal arts group major which includes Home Economics may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

DESCRIPTION OF COURSES

Lower Division

A. Introduction to Home Economics

1 unit

This survey course is designed to acquaint the student with the entire overview of the Home Economics field, and the many ways in which it may serve any individual; information which may lead into vocational goals or develop an appreciation of a higher standard of living. (Open to both men and women and recommended for Freshmen.)

One one-hour period per week.

1A-1B. Clothing Construction (year)

3-3 units

First semester: Laboratory work directed towards the development of good technique in clothing construction processes; use of sewing machines and hand stitches; selection and alteration of commercial patterns; correct fitting methods; use of cotton, linen, and rayon fabrics in making garments.

Second semester: Continuation of the work of the first semester. Development of more difficult technique in construction, alteration, and designing of garments. Emphasis on use of woolen fabrics and on original design.

One one-hour lecture and two three-hour laboratory periods per week.

1A is not prerequisite to 1B.

5. Home Crafts

2 units

The use of leisure time in designing and creating beautiful objects for the home. Instruction in art needlework and flower arrangements. This is an elective course with no prerequisites.

Two one-hour periods per week.

7. Textiles Selection

2 units

Consumer problems in textile selection of clothing and household fabrics. Identification of the major and minor fibers; laboratory tests on fibers; scientific principles applied to the care and treatment of fabrics. Open to all.

Two one-hour periods per week.

10A-10B. Food Study (year)**3-3 units**

First semester: A scientific study of the composition and preparation of foods; food experiments; analysis of recipes and cookery processes and their application to meal preparation.

Second semester: Continuation of the work of the first semester. Emphasis on the planning, marketing, preparing, and serving of meals.

Prerequisite: Chemistry 1A (consult with instructor).

One one-hour lecture and two two-hour laboratory periods per week.

11. Meal Planning and Serving**2 units**

Meal planning, preparation and serving of all three daily meals. Special appointments for various occasions, including an appreciation for acceptable etiquette and table decorations. Emphasis on relative costs and nutritive values, and on time and energy conservation.

One one-hour lecture and one three-hour laboratory period per week.

20. General Nutrition**2-3 units**

A study of nutrition with special emphasis on human requirements, best selection of foods for individuals and families, and economy meals. Practice in food preparation and menu planning. Designed to meet the requirements for Social Service, Wildlife Management, and other curricula.

Pre-nursing students are required to include the laboratory work.

Two one-hour periods per week, plus an optional three-hour laboratory period.

Upper Division**101. Advanced Clothing and Design****3 units**

Advanced garment construction to acquire skills and time-saving techniques. For majors and minors in Home Economics.

One one-hour lecture and two three-hour laboratory periods per week.

Prerequisite: H.E. 1A-1B.

111. Advanced Meal Planning and Serving**2 units**

One one-hour lecture and one three-hour laboratory period per week.

Prerequisite: Upper Division standing and consent of instructor. Students who have had Home Economics 11 are not eligible to enroll in this course.

120. Dietetics**3 units**

The fundamentals of human nutrition and the nutritive properties of foods with application to the feeding of individuals and special groups; dietaries on limited incomes. Introductory problems in diet therapy.

Prerequisite: H.E. 10A-10B and 20.

Two one-hour lectures and one three-hour laboratory period per week.

130. Home Management**3 units**

The evaluation of time, energy, and money in performing routine tasks in the care of the family, meals, laundry, services, special cleaning, entertaining and working for satisfaction in attaining a relative set of values in homemaking.

Three one-hour periods per week, supplemented by actual home living practices.

140. Home Furnishings**3 units**

A study of the house, its furnishings, equipment, interior decoration and arrangement, to satisfy varied family needs and interests.

Prerequisite: Art 1 and 10; Industrial Education 103 strongly recommended.

Three one-hour periods per week.

150. Child Care and Training**2 units**

Observation and participation in the care and training of the pre-school child. Emphasis upon the establishing of desirable physical, mental, social, and emotional behavior of children as individuals and in groups.

160. Family Relationships**3 units**

See Sociology 160.

165. Family Economics

3 units

Special problems in personal and family finances in theory and practice, involving the evaluation of home production and consumption of goods and services; expenditures for the essentials and luxuries of life as related to desired goals of health, ambition, and a satisfactory standard of happy home life.

Three one-hour periods per week.

190. Homemaking Problems in the Elementary School

2 units

This course is designed to acquaint the elementary teacher minoring in Home Economics with homemaking procedures that can be adapted for use in the upper grades or junior high school in correlation with a given unit of work. Not applicable toward a minor in Home Economics.

Two one-hour periods per week.

199. Special Problems in Home Economics Education

1-3 units

A flexible arrangement designed to meet the individual needs and interests of the major of upper division standing. Each person desiring such a course must have approval of the Home Economics staff. The hours, form of procedure, and objectives of the course must meet the approval of the instructor concerned.

INDUSTRIAL EDUCATION

<i>Suggested Program for</i>	<i>Pre-special *</i>	<i>Two-year</i>
	<i>secondary</i>	<i>program in</i>
	<i>credential</i>	<i>drafting</i>
Lower Division		
	<i>Units</i>	<i>Units</i>
Art 1—Art Structure	2	—
Art 2—Art History and Appreciation.....	—	3
Art 10—Design	3	3
Art 20A—Fundamentals of Drawing or		
21A—Drawing and Composition.....	—	3
Art 45—Lettering	3	3
Art 50—Elementary Photography	2	—
Engr. 1A-1B—First Year Reading and Composition.....	6	6
Engr. 1A-1B—Plane Surveying	—	6
Engr. 22—Engineering Drawing	2	2
Engr. 23—Descriptive Geometry	—	2
Engr. 24—Advanced Engineering Drawing.....	—	2
Engr. 40—Engineering Metallurgy	3	—
H.H. 1—Personal Hygiene	2	—
I.E. 5—Pottery	3	—
I.E. 6—Cement and Concrete Work.....	2	—
I.E. 7A—Mechanical Drawing	2	2
I.E. 12—Metal Arts	3	—
I.E. 13—Architectural Drafting	—	2-3
I.E. 50—Introduction to Radio.....	3	—
I.E. 51—Fundamentals of Industrial Education.....	3	—
Math. C—Trigonometry	—	3
Math. D—Intermediate Algebra	—	3
Chem. 1A—General Chemistry	5	—
Phys. 2A-2B—General Physics	—	6
Nat. Sci.—Electives	7	—
P.E. Activities (including P.E. 5).....	2	2
Psych. 1—General Psychology	3	3
Hist. 70—History of the United States.....	2	2
Pol. Sci. 51—American Constitutional Government.....	2	2
Soc. Sci. Electives (including one-year course).....	8	—
Speech 1—Fundamentals of Speech.....	3	—
Electives	—	2

<i>Suggested Program for</i>	<i>Pre-special * secondary credential</i>	<i>Two-year program in drafting</i>
Upper Division		
	<i>Units</i>	<i>Units</i>
Educ. 113—Psychological and Social Foundations of Education _____	5	-
Educ. 115—Measurement in Education _____	2	-
Educ. 175—Core Course in Secondary Education _____	5	-
I.E. 101—Advanced Woodworking _____	3	-
I.E. 123—Pattern Making and Theory of Foundry Practice _____	3	-

* From two to three years' work for this credential may be taken in this College; the remainder of the program must be taken in an institution authorized to issue this credential. The student should consult the specific requirements of the institution to which he expects to transfer. From one and one-half to two years would probably be required in the terminal institution to complete the requirements for this credential.

REQUIREMENTS FOR

Junior High School Major in Industrial Education

Lower Division	Ind. Educ. 7A _____	2 units
	Ind. Educ. 51 ¹ _____	3 units
	Additional Lower Division Ind. Educ. _____	7 units
Upper Division	Ind. Educ. 101 _____	3 units
	Ind. Educ. 130 _____	2 units
	Additional Upper Division Ind. Educ. _____	7 units
Total units required		24 units

Additional requirements for the Junior High School Credential are given in detail on pages 54-55.

A liberal arts group major which includes Industrial Education may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

Minors in Industrial Education

<i>General Elementary</i>			<i>Junior High School and Secondary</i>	
Lower Division _____	Ind. Educ. 15 or 51 ¹ _____	3 units	Ind. Educ. 7A _____	2 units
	Electives (may include Art 40 or 41) _____	3 units	Ind. Educ. 51 ¹ _____	3 units
			Electives (may include Art 40 or 41) _____	4 units
Upper Division _____			Ind. Educ. 130 _____	2 units
	Ind. Educ. 190 (men only) _____	2 units	Ind. Educ. 190 (men only) _____	2 units
	Electives _____	4-6 units	Electives _____	5-7 units
Total units required		12 units	18 units	

¹ Industrial Education 51 will be waived as a subject requirement for students who have had two years of high school manual training.

DESCRIPTION OF COURSES

Lower Division

5. Pottery (fall)

2 or 3 units

A course in an interesting and age-old industry. Designing, casting, throwing, modeling, glazing, and firing.

Two or three three-hour periods per week.

- †6. **Cement and Concrete Work** (spring) 2 units
 Theory and practical application of concrete work, including ornamental cement.
 Two three-hour periods per week.
- 7A. **Mechanical Drawing** (fall, spring) 2 units
 A fundamental course in mechanical drawing which covers orthographic, isometric, and cabinet projections, intersection of solids, sections, screws and threads, cams, blue prints, etc.
 Three two-hour periods per week.
9. **Stone Polishing and Plastics** (spring) 2 or 3 units
 In this course an age old art is united with a very modern one. Stone cutting has been practiced for many years; plastic is very modern, but has many possibilities. The combination of the two subjects makes an interesting study.
 Two or three three-hour periods per week.
- †12. **Metal Arts** (spring) 3 units
 The application and use of various metals. Hammering of copper, grinding of stones, casting, silver plating, soldering, enameling.
 Three three-hour periods per week.
13. **Architectural Drafting** (spring) 2 or 3 units
 A beginning course in the fundamentals of house design. Floor plans, elevations, perspective drafting, and architectural detail. A course in mechanical drawing either in high school or college is advisable as background.
 Two or three three-hour periods per week.
15. **Crafts in the Elementary Schools** (fall, spring) 3 units
 A course in the use of native materials and waste products applicable to the elementary grades. Magazine binding, waste-basket making, weaving, toy making, and pottery are some of the kinds of work done. Required of all women candidates for a General Elementary or Kindergarten-Primary Credential.
 Three one-hour class periods and six hours of outside work per week.

16. **Toycraft** 2 or 3 units
 This course is planned for those students who are interested in child life and the many ingenious toys that it is possible to make for children.
 Two or three three-hour periods per week.
- 50-150. **Introduction to Radio** (fall) 3 units
 Sound and radio waves. Theory and operation of oscillators, amplifiers, rectifiers, frequency meters, vacuum tubes, cathode ray oscilloscopes, and continuous wave radiation equipment. Laboratory work in circuit design, testing, and operation.
 One lecture and two three-hour laboratory periods per week.

51. **Fundamentals of Industrial Education** (fall, spring) 3 units
 The fundamentals of industrial education in terms of teaching industrial arts in the elementary grades. Covers methods, courses of study, construction of objects of the elementary grades level, and care and use of equipment. Required of all men candidates for an Elementary or Junior High School Credential.
 Three three-hour periods per week.

Upper Division

101. **Advanced Woodworking** (spring) 2 or 3 units
 Building of boats, airplane gliders, and large pieces of similar nature.
 Prerequisite: Industrial Education 51 or its equivalent.
 Two or three three-hour periods per week.
103. **The Art of House Design** (fall) 2 or 3 units
 A thorough-going study of home planning and building in which an entire house is planned in structure and furnishings.
 Prerequisite: Industrial Education 13.
 Two or three three-hour periods per week.

† Given if sufficient demand.

105. Advanced Pottery (fall)**2 units**

Study of the problems involved in pottery making, from the standpoint of both teaching and business. Designing, decorating, throwing, packing, firing of the kiln are a few of the subjects studied.

Prerequisite: Industrial Education 5.

Two three-hour periods per week.

107. Advanced Mechanical Drawing (spring)**2 units**

See Engineering 24. Upper division students may receive upper division credit by doing an additional problem.

†112. Advanced Metal Arts (spring)**2 or 3 units**

An advanced study of the work offered in Industrial Education 12. Practice in the use of pewter, aluminum, silver, bronze, and other metals.

Prerequisite: Industrial Education 12.

Two or three three-hour periods per week.

†113. Machine Shop**3-3 units**

See Engineering 40-41.

†123. Pattern-Making and the Theory of Foundry Practice (fall)**3 units**

A study in the basic principles of foundry practice and pattern-making. The construction of simple patterns, and casting in softer metals.

Prerequisite: Industrial Education 51 or its equivalent.

Three three-hour periods per week.

†124. Advanced Cabinet and Other Wood Construction (fall)**2 or 3 units**

Advanced course in woodwork designed for students interested in teaching or in problems of advanced construction.

Prerequisite: Industrial Education 101.

Two or three three-hour periods per week.

†125. Carpentry (spring)**3 units**

A study of house construction in which houses in miniature are built to illustrate construction problems. Recommended as a suitable course to follow Industrial Education 103.

Prerequisite: Industrial Education 51 or its equivalent.

Three three-hour periods per week.

†130. Industrial Arts Design (spring)**2 units**

Theory and practice in the designing of objects in the industrial arts and their decoration.

Prerequisite: Industrial Education 7A.

Two one-hour lecture and two two-hour laboratory periods per week.

†190. Management of School Shops (spring)**2 units**

A course in the objectives, methods, and content of shop programs for the grade schools. Intended for students majoring in Industrial Education.

Prerequisite: Industrial Education 51 and upper division status.

Two one-hour periods per week.

† Given if sufficient demand.

MUSIC

Requirements for the A.B. Degree With Major in Music

Requirements for the A.B. Degree With Major in Music	Liberal Arts *		
	General Secondary Credential	Special Secondary Credential	(Without a teaching Credential)
Lower Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Mus. 11A-11B—Ear Training and Sight Singing	4	4	4
Mus. 11C—Advanced Ear Training and Sight Singing -----	2	2	--
Mus. 20A-20B—Harmony -----	6	6	6
Mus. 21A-21B—Advanced Harmony -----	6	6	6
Applied Music -----	4	4	2
Music Activities -----	2	2	--
†Mus. 71—Strings -----	(2)	(2)	--
†Mus. 72—Brass Instruments -----	(2)	(2)	--
†Mus. 73—Woodwinds -----	(2)	(2)	--
Engl. 1A-1B—First Year Reading and Composition -----	6	6	6
Phys. 15—Physics of Sound and Color -----	3	3	3
Nat. Sci.—Electives (See page 39.) -----	9	9	9
Or. II—Orientation II -----	1	1	--
P.E. 5 or 15—Freshman Physical Activities -----	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
P.E. 33—Folk Dances -----	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
P.E.—Activities -----	1	1	1
Psych. 1—General Psychology -----	3	3	3
Soc. Sci.—Electives (including one Year-Course) (See page 39.) -----	12	12	12
Restricted Electives—Chosen from Foreign Lan- guage, Philosophy, Speech, Art, or English 46A-46B or 74A-74B. -----	6	6	6
Fulfillment of requirement in United States History and Constitution. (See page 40.)			
Math. A-B—Elementary Algebra and Plane Geometry if not taken in high school.			
Completion of lower division requirements for a minor. (See lists on page 41.)			
Lower Division Electives to total -----			60

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† Music majors usually enter college with some basic knowledge of orchestral instruments. On the basis of an examination, these students will be excused from Music 71, 72, and 73. Students who have not had training in these fields or who fail to make a satisfactory score on the qualifying examination will be required to enroll in these courses which must be taken in addition to the 120 semester units required for the A.B. degree.

Requirements for the A.B. Degree With Major in Music	General	Special	Liberal Arts
	Secondary Credential	Secondary Credential	(Without a teaching Credential)
Upper Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Mus. 101-102—Music History -----	6	6	6
Mus. 123—Counterpoint and Composition -----	2	2	2
Mus. 124—Form and Analysis -----	2	2	2
Mus. 131—Instrumental Arranging -----	2	2	--
Mus. 141—Instrumental Conducting -----	2	2	--
Mus. 146—Choral Conducting -----	2	2	--
Applied Music -----	4	4	4
Music Activities -----	2	2	--
Electives—Upper Division Music -----	--	--	10
Educ. 113—Psychological and Social Foundations of Education -----	5	5	--
Educ. 153—Audio-Visual Education -----	2	2	--
Educ. 175—Core Course in Secondary Education -----	5	5	--
Educ. 190M—Elementary School Music -----	--	2	--
Educ. 195M—The Teaching of Music -----	2	2	--
Educ. 320C—Directed Teaching— Elementary School Music -----	--	2	--
Educ. 340A—Directed Teaching— Secondary School Music -----	--	3	--
Completion of upper division requirements for a minor.			
Electives to total -----	120	120	120
Total upper division required -----	40	40	40
Total required outside field of Music -----	60	80	60
Scholarship Requirements:			
In all work taken -----	1.00	1.00	1.00
In major and minor -----	1.00	1.00	1.00
In each Education course taken -----	1.00	1.00	
For admission to Graduate Division:			
In major -----	1.5		
In all upper division work taken -----	1.5		
Graduate Year (General Secondary Credential Only)			<i>Units</i>
Music 299—Seminar in Music Problems -----			3
Educ. 265—Guidance in Education -----			2
Educ. 275—Seminar in Secondary Education -----			2
Educ. 340A-340B—Directed Teaching in the Secondary School -----			6
Elective in Education (Graduate Course) -----			2
Major or minor or electives (Upper Division or Graduate courses) to total at least -----			24
Scholarship requirement (all work in Graduate Year) -----			1.75

PERFORMANCE TESTS

In addition to the subject and scholarship requirements listed above, the State Department of Education has prescribed the following standards of performance which must be met by candidates for both the General and the Special Secondary Credentials:

- I. **PIANO:** Ability to play a Bach two-part invention, an artistic accompaniment, and four-part hymns at sight.
- II. **VOICE:** Ability to sing at least one song representative of each of the following periods of vocal literature:
 - Classical period
 - Romantic period
 - Modern period

Ability to sing at sight any part of a four-part hymn.

III. CONDUCTING: Ability to train changed and unchanged voices; to conduct an open four-part score; to tune, adjust, and demonstrate the fingering of any instrument of the orchestra; to play the major scale of the instrument one octave on at least one representative instrument of each section of the orchestra; and to conduct from an orchestral score.

REQUIREMENTS FOR*Junior High School Major*

Lower Division -----	Music 11A-11B -----	4 units
	Music 20A-20B -----	6 units
	Music 21A-21B -----	6 units
	† Music 71, 72, or 73 (two courses) -----	4 units
	Music Activities and Class Lessons -----	3 units
Upper Division -----	Music 101-102 -----	6 units
	Music 141 -----	2 units
	Music 146 -----	2 units
	Music 190 -----	2 units
	Music Activities and Class Lessons -----	4 units
Total units required -----		39 units

† The student should select two orchestral fields in which he has not had previous training.

A liberal arts group major which includes Music may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

Additional requirements for the Junior High School Credential are given in detail on pages 54-55.

*Teaching Minors for All Credential Candidates**Instrumental Minor**Vocal Minor*

Lower Division ----	Music 11A-11B -----	4 units	Music 11A-11B -----	4 units
	* Music 71, 72, or 73 -----	2-3 units	Music 60 or 65 -----	1 unit
			Music 76 -----	2 units
Upper Division ----	Music 20A-20B -----	6 units	Music 20A-20B -----	6 units
	Music 101, 102 -----	6 units	Music 101, 102 -----	6 units
	Music 131 -----	1 unit	Music 146 -----	2 units
	Music 141 -----	2 units	Music 160 or 165 -----	1 unit
	Music 190 -----	2 units	Music 190 -----	2 units
	Piano Test		Piano Test	
Total Units Required		24 units		24 units

*Minors for Non-Credential Candidates**Musicology Minor**Vocal or Instrumental Minor*

Lower Division ----	Music 3, 4 -----	6 units	Music 3, 4 -----	6 units
	Music 50, 51, 58, 59, 60, or 65 -----	4 units	Applied Music (Voice or an Instrument) -----	2 units
			Music Activities (in field of emphasis) -----	2 units
Upper Division ----	Music 101, 102 -----	6 units	Applied Music and Activities (in field of emphasis) -----	4 units
			Electives -----	2 units
Total Units Required		16 units		16 units

* The student takes at least two of these courses in fields in which he has not had previous training, for nine weeks for one unit each.

DESCRIPTION OF COURSES**Lower Division**

- 3-4. Music Literature (year)** **3-3 units**
 A course in music history and appreciation designed for students who are not majoring in music, but wish to know more about music as a part of their general education. Music correlated with the other arts through lectures and recordings.
 Three one-hour periods per week.
- 10. Musicianship (fall, spring)** **3 units**
 Elementary work in ear training, sight singing, and piano keyboard; designed to give the fundamentals of music in a direct and concise manner.
 Required for all students working toward a teaching credential. Music majors not eligible.
 Three one-hour periods per week.
- 11A-11B. Ear Training and Sight Singing (year)** **2-2 units**
 Designed to give a thorough foundation in pitch, rhythm, and harmony in the major and minor modes. These elements are presented through rhythmic and melodic dictation, sightsinging, and melodic writing.
 Two one-hour periods per week.
- 11C. Advanced Ear Training and Sight Singing (fall)** **2 units**
 Advanced work in harmonic ear training. Training in complex rhythms and chromatically altered melodies.
 Prerequisite: Music 11A-11B.
 Two one-hour periods per week.
- 20A-20B. Harmony (year)** **3-3 units**
 Harmonization of melodies; scales, intervals, triads, the dominant seventh, non-harmonic tones, simple modulations, secondary seventh chords; keyboard harmony.
 Three one-hour periods per week.
- 21A-21B. Advanced Harmony (year)** **3-3 units**
 Essentials of advanced harmony embracing chromatic alterations, modulations by means of altered chords, use of all nonharmonic tones, original compositions, keyboard work.
 Prerequisite: Music 20A-20B.
 Three one-hour periods per week.
- 70A-70B. Piano (fall, spring)** **1-1 unit**
 Class instruction open to any student who has a desire to learn to play the piano. No preliminary knowledge of piano is needed.
 One one-hour period per week.
- 70C-70D. Intermediate Piano (fall, spring)** **1-1 unit**
 Class instruction open to any student who has had the equivalent of Music 70A-B.
 One one-hour period per week.
- *71. Strings (fall)** **1-2 units**
 Violin, viola, 'cello, string bass. Study and practice of one or more of the string instruments supplemented by a study of arranging for string instruments, teaching methods, and the elementary physics of sound.
 Two one-hour periods per week.
- *72. Brass Instruments (spring)** **1-2 units**
 Tone production, breathing, transportation, physics of sound, and arranging for brass instruments will be briefly covered in addition to the study of the instruments.
 Two one-hour periods per week.
- *73. Woodwinds (fall)** **1-2 units**
 The problems of embouchure, breathing, care of the instrument, physics of sound, transposition, and elementary arranging will be covered. Each student will play one or more of the woodwind instruments, with additional theoretical study.
 Two one-hour periods per week.

* Candidates for the General or the Special Secondary Credential in Music may not receive degree credit in these courses. They may be waived on the basis of an examination. Music minors are required to take only the first nine weeks' work in at least two of these courses.

- 75A-75B. Beginning Violin** (fall, spring) 1-1 unit
 Class instruction open to any student who has a desire to learn to play the violin.
 Prerequisite: Music 71 or equivalent.
 One one-hour period per week.
- 75C-75D. Intermediate Violin** (fall, spring) 1-1 unit
 Class instruction in violin open to any student who has had the equivalent of Music 75B.
 One one-hour period per week.
- 76A-76B. Voice** (fall, spring) 1-1 unit
 Elementary class instruction in voice, designed to help students improve tone quality and musicianship of their singing.
 One one-hour period per week.
- 76C-76D. Intermediate Voice** (fall, spring) 1-1 unit
 Class instruction open to any student who has had the equivalent of Music 76A-76B.
 One one-hour period per week.

Upper Division

- 101-102. Music History** (year) 3-3 units
 A chronological study of vocal and instrumental music from plainsong through modern music. Lectures integrating the history of music with other arts and general thought of the time. Music presented through recordings.
 Three one-hour periods per week.
- 123. Counterpoint and Composition** (fall) 2 units
 Strict counterpoint in all orders. Two-, three-, and four-part writing.
 Two one-hour periods per week.
 Prerequisite: Music 21A-21B.
- 124. Form and Analysis** (spring) 2 units
 Review of simple part-forms and study of complex forms with analysis based on the principles of repetition and contrast.
 Two one-hour periods per week.
 Prerequisite: Music 123.
- 131. Instrumental Arranging** (fall) 1-2 units
 A practical course in arranging music for various combinations of instruments, with special reference to school orchestras. To be taken in senior year.
 Prerequisite: Music 70, and consent of the instructor.
 Two one-hour periods per week.
- 141. Instrumental Conducting** (spring) 2 units
 Baton and rehearsal technique; the problems associated with various kinds of instrumental organizations; program building; principles of interpretation.
 Two one-hour periods per week.
- 146. Choral Conducting** (spring) 2 units
 Same as Music 141 but applied to choral singing.
 Two one-hour periods per week.
- 170. Advanced Piano** (fall, spring) 1-1 unit
 Class instruction open to any student who has had the equivalent of Music 70C-70D.
 One one-hour period per week.
- 176. Advanced Voice** (fall, spring) 1-1 unit
 Class instruction open to any student who has had the equivalent of Music 76C-76D.
 One one-hour period per week.

190. Elementary Music Education (fall, spring) 2 units

(See Education 190M.)

Survey of the field of public school music and practical devices for teaching music in the public school from the first grade through the junior high grades. Covers the philosophy of music and practical devices for teaching such phases as rhythm, singing, creative expression, music-listening, and playing of simple instruments.

Prerequisite: Music 10 or equivalent, and one year of Chorus or A Cappella Choir. Music 70B is strongly recommended.

199. Special Problems—Form and Analysis 2-3 units

A seminar course, emphasizing concentration in one or more forms of music with special emphasis on origin, development and contemporary use of such forms, their influence upon other forms of music and an historical evaluation.

Prerequisite: Consent of instructor.

Graduate Division**299. Seminar in Music Problems 3 units****Musical Organizations****50-150. Orchestra (fall, spring) 1 unit**

Affords qualified students an opportunity for study of good orchestral composition and for learning to play with interpretation, finish, and precision. Outside practice necessary.

Prerequisite to Music 150: Consent of instructor on basis of auditions.

Two two-hour periods per week.

51-151. Band (fall, spring) 1 unit

Playing of both popular and symphonic band music. During the fall athletic season the band plays for athletic contests and rallies. Thereafter attention is devoted entirely to symphonic band music for playing in public concert.

Two one-hour periods per week.

58-158. Piano Ensemble 1 unit

Study of duo-piano works of all periods in music; also original piano duets. Interpretation and technique of ensemble playing.

Two one-hour periods per week.

59-159. Chamber Ensemble 1 unit

Study and performance of Chamber music of all periods. Class will include duo-piano and small instrumental ensembles.

Prerequisite: Consent of instructor.

Two one-hour periods per week.

60-160. College Chorus (fall, spring) 1 unit

A musical organization open to any member of the student body without try-outs. It affords opportunity to become acquainted with some of the best music of the past and present. The chorus appears in several public performances during the year.

Two one-hour periods per week.

65A, B, C, D; 165A, B, C, D. A Cappella Choir (year) 1-1 unit

A selected group of singers who sing a cappella literature ranging from the sixteenth century to the present. Principles of style and interpretation, voice production, and other attributes of musicianly singing are dwelt upon to a much greater extent than is possible in the College Chorus. The choir gives many concerts and usually goes on tour in the spring of each year.

Prerequisite for Music 165: Music 65A-65B. Consent of instructor on the basis of auditions.

Four hours per week.

Madrigal Singers No credit

Consent of the instructor is required for admission to membership in this choral group.

Applied Music

Private lessons will be given on the basis of one half-hour lesson per week for a fee of \$3 per lesson. (Class lessons in each of these fields are covered by regular tuition, without extra charge.)

80-180. Private Lessons—Piano

Mr. Fulkerson,* Mr. Flye, Mr. Ovanin.

81-181. Private Lessons—Strings

Mrs. Griffith, Mr. Ovanin.

82-182. Private Lessons—Brass

Mr. Gurnee.

83-183. Private Lessons—Woodwinds

Mr. Gurnee.

84-184. Private Lessons—Organ

Anyone interested may make arrangements through Mr. Barlow.

86-186. Private Lessons—Voice

Mr. Barlow.

SPEECH

<i>Requirements for the A.B. Degree with Major in</i>	<i>Speech- English</i>	<i>Liberal Arts †</i>		
	<i>(General Second- ary Creden- tial)</i>	<i>Speech- English</i>	<i>Radio- Speech</i>	<i>Speech- Dra- matics</i>
		<i>(Without a Teaching Credential)</i>		
Lower Division				
	<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
Spch. 1—Fundamentals of Speech-----	3	3	3	3
Spch. 2—Oral Interpretation of Literature----	3	3	3	3
Spch. 3—Public Speaking -----	3	3	3	3
Spch. 10—Survey of Radio Broadcasting-----	-	-	3	-
Spch. 20—Technique of Acting-----	2	2	-	2
Spch. 21—Elementary Stagecraft -----	2	2	-	2
Elective in Speech-----	2	2	-	2
Engl. 1A-1B—First-Year Reading and Composition -----	6	6	6	6
Engl. 46A-46B—Survey of English Literature--	6	6	6	6
Jn. 20—Newsriting -----	-	-	3	-
B.A. 2A—Typing (or equivalent skill)-----	-	-	0-2	-
B.A. 50—Salesmanship -----	-	-	2	-
I.E. 50—Introduction to Radio-----	-	-	3	-
Nat. Sci. Electives (See page 39.)-----	12‡	12	9	12
Or. II—Orientation II -----	1	-	-	-
P.E.—Activities (Including P.E. 5 or 15)-----	2	2	2	2
Psych. 1—General Psychology-----	3	3	3	3
Soc. Sci. (Including one year-course) (See page 39.)-----	12	12	12	12
Restricted Electives (Chosen from Art, Music, Foreign Language, Philosophy)-----	6	6	6	6
Fulfillment of Requirement in United States History and Constitution. (See page 40.)				
Math. A-B—Elementary Algebra and Plane Ge- ometry (if not taken in high school)				
Completion of lower division requirements for a minor. See lists on page 41.)				

* On leave of absence, 1949-50.

† The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

‡ Recommended: Phys. Sci. 5A-5B; Phys. 15.

Requirements for the A.B. Degree with Major in	Speech- English (General Second- ary Creden- tial)	Liberal Arts *		Speech-
		Speech- English	Radio- Speech	Dra- matics
		(Without a Teaching Credential)		
Upper Division				
	Units	Units	Units	Units
Spch. 111—Adv. Radio Workshop-----	-	-	1	-
Spch. 112—Radio Writing-----	-	-	3	-
Spch. 113—Radio Production Directing-----	-	-	3	-
Spch. 114—Radio Sales and Commercial Operation-----	-	-	3	-
Spch. 115—Advanced Radio Production-----	-	-	3-8	-
Spch. 126—Play Production-----	3	3	-	3
Spch. 127—Play Production-----	3	3	-	3
Spch. 140—Survey of the Drama-----	3	3	-	3
Spch. 170—Phonetics-----	-	-	-	3
Spch. 180—Speech Correction-----	3	-	-	-
Electives in Upper Division Speech Chosen from:				
Spch. 102—Advanced Expression and Interpretation-----	3	-	-	-
Spch. 103—Advanced Public Speaking-----				
Spch. 106—Discussion Methods-----				
Spch. 111—Advanced Radio Workshop-----				
Spch. 125—Dramatics Workshop-----				
Spch. 130—Playwriting-----				
Spch. 170—Phonetics-----				
Engl. 112—Phonetics or 115—The English Language-----	3	3	-	-
Engl. 136A or 136B—American Literature-----	3 or	3 or	-	-
Engl. 162—Shakespeare-----	(3)	(3)	-	-
Electives in Speech or-----	-	3-9 or	5-11 or	6-12 or
English-----	-	(3)	0-6	0-6
Total required in the major (Upper Division)----	(24)	(24)	(24)	(24)
Educ. 113—Psychological and Social Founda- tions of Education-----	5	-	-	-
Educ. 153—Audio-Visual Education-----	2	-	-	-
Educ. 175—Core Course in Secondary Education-----	5	-	-	-
Educ. 195Sp—The Teaching of Speech-----	2	-	-	-
Completion of upper division requirements for a minor.				
Electives to total-----	120	120	120	120
Total upper division required-----	40	40	40	40
Total required outside field of Speech-English and Journalism-----	60	60	60	60
Scholarship Requirements:				
In all work taken-----	1.00	1.00	1.00	1.00
In major and minor-----	1.00	1.00	1.00	1.00
In each Education course taken-----	1.00	-	-	-
For admission to Graduate Division:				
In major-----	1.5	-	-	-
In all upper division work taken-----	1.5	-	-	-

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

Graduate Year (General Secondary Credential Only)

	<i>Units</i>
Electives in Speech (Graduate Courses)	6
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Elective in Education (Graduate Course)	2
Major or minor or electives (Upper Division or Graduate courses) to total at least	24
Scholarship Requirement (all work in Graduate Year)	1.75

Special Secondary Credential in Speech Correction

This credential may be secured by meeting the requirements of the State Board of Education. Over one-half of the requisite courses may be taken here and the rest at another institution specializing in this field. For particulars, see the Registrar.

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Teaching Minors for Candidates for General Secondary Credential</i>	
	<i>Speech</i>	<i>Radio-Speech</i>
Lower		
Division__Speech 1 ____ 3 units	Speech 1____ 3 units	Speech 1____ 3 units
Speech 2 ____ 3 units	Speech 2____ 3 units	Speech 2____ 3 units
Speech 3 ____ 3 units	Speech 3____ 3 units	Speech 10____ 3 units
Electives ____ 3 units	3 units chosen from: Speech 11, 20, 21, 25, 30 ____ 3 units	Speech 11 or 25 2 units
Upper		
Division__Speech 126 __ 3 units		
Speech 127 __ 3 units	Speech 126____ 3 units	Speech 106____ 3 units
Speech 180 __ 3 units	Speech 127____ 3 units	Speech 111____ 3 units
Speech 191 __ 3 units	Speech 180____ 3 units	Speech 112____ 3 units
Electives ____ 3 units	Speech 191____ 3 units	Speech 113____ 3 units
Total Units		
Required 27 units	24 units	23 units

Additional requirements for the Junior High School Credential are given in detail on pages 54-55.

	<i>Minors</i>	
	<i>Radio</i>	<i>Speech-Dramatics</i>
Lower Division	Speech 1____ 3 units	Speech 1____ 3 units
	Speech 2____ 3 units	Speech 3____ 3 units
Upper Division	Speech 113____ 3 units	Speech (U.D.) 6 units
	Speech 114____ 3 units	
Total Units Required	12 units	12 units

DESCRIPTION OF COURSES**Lower Division**

1. **Fundamentals of Speech** (fall, spring) 3 units
 An introductory course in public speaking and reading aloud, involving the study of voice control, delivery techniques, speech composition, types of readings and speeches, and phonetics.
 Three one-hour periods per week.
2. **Oral Interpretation of Literature** (spring) 3 units
 A basic course in voice training and in the art of oral interpretation. Oral interpretation of poetry, short stories, and dramatic scenes from the standpoint of both emotional and intellectual reaction.
 Three one-hour periods per week.
 Prerequisite: Speech 1.
3. **Public Speaking** (fall) 3 units
 A basic course in the fundamentals of speech planning and delivery. The course aims to develop self-confidence and poise through oral expression and to awaken interest in the events and problems of the modern world.
 Three one-hour periods per week.
 Prerequisite: Speech 1.
7. **Radio Speech** (spring) 3 units
 The theory and practice of radio broadcasting as distinguished from platform speaking. Class practice with proven broadcasting materials of all kinds.
 Prerequisite: Speech 1 and 2 or the consent of the instructor.
 Three one-hour periods per week.
- *10. **Survey of Radio Broadcasting** (fall, spring) 3 units
 An introductory course to radio involving the history of broadcasting, government regulations; station organization and management; network organizations; methods of production and broadcasting; commercial methods and policies; educational broadcasting and broadcasters; public service responsibilities; and the future of radio.
 Three one-hour class periods per week.
11. **Radio Workshop** (fall, spring) 1 or 2 units
 Students in this course are responsible for the College's radio programs presented over the local radio stations. They write, direct, produce, and enact the programs. Though the emphasis is on learning by doing, the student is encouraged to explore all aspects of radio and become familiar with the best production procedures.
 May be repeated four times for credit.
 One one-hour period per week and three hours DHR in the broadcast studios.
- *20. **Technique of Acting** (spring) 2 units
 This course embraces the basic principles of Dramatic Art. It teaches the fundamentals of pantomime, impersonation, and oral expression and acting. It is designed for students with little or no stage experience who wish to improve their speaking voices and to develop poise and self-confidence.
 Two two-hour periods per week.
21. **Elementary Stagecraft** 2 units
 The planning, building, painting and lighting of scenery.
 One one-hour lecture and three hours laboratory.
25. **Dramatic Workshop** (fall, spring) 1-2 units
 A laboratory course in acting and in the technical practices of the stage, including construction of sets, stage lighting, theatrical costume and make-up. Time is spent in the actual work of preparing plays for public performance.
 May be repeated four times for credit.
 Three two-hour periods per week (for two units of credit).

* Not given 1949-50.

***30. Playwriting (fall)**

3 units

A course in the critical analysis of dramatic structure and techniques designed for the student interested in dramatic literature, play directing, or the writing of original plays for the stage and radio. The superior contributions of this class will be staged in the "Hilarities," one-act play assemblies, and in the college radio studio.

Prerequisite: English 1A-1B or consent of instructor.

Two two-hour periods per week.

80. Speech Clinic (fall, spring)

1-1 unit

Individual instruction for students having minor disturbances of voice or speech as well as those having more serious disorders. Consent of the instructor must be obtained for enrollment.

Two one-hour periods per week.

Upper Division

Speech 1, and 2 or 3 or consent of instructor are prerequisite to all upper division courses.

102. Advanced Expression and Interpretation (spring)

3 units

A course in reading aloud in which particular attention will be paid to the specific interests, needs, and abilities of the individual student, which determine his activities in class. Special attention is given to the needs of prospective teachers with respect to reading aloud in the classroom.

Prerequisite: Speech 2.

Three one-hour periods per week.

103. Advanced Public Speaking (fall)

3 units

This course embraces a more detailed study of speech planning, the techniques of presentation, and the forms of address. Extensive practice in extemporaneous speaking.

Prerequisite: Speech 3.

Three one-hour periods per week.

106. Discussion Methods

2 units

Techniques of group discussion including the conference, panel, and symposium forms; practical experience in discussion of current problems; the study of parliamentary law and its application to the organization and functioning of groups.

Two one-hour periods per week.

***110. Survey of Radio Broadcasting (spring)**

3 units

A course of the same character as Speech 10 intended for students working toward a radio minor in a credential curriculum. A radio research problem will be undertaken by the members of this class.

Three one-hour class periods per week.

111. Advanced Radio Workshop (fall, spring)

1 unit

A course of the same character as Speech 11 for advanced students.

Prerequisite: Speech 11 or consent of the instructor.

One one-hour period and three hours DHR in the broadcasting studios.

112. Radio Writing (spring)

3 units

Study of the techniques and devices used in writing radio plays, continuity, forms, commercial announcements, special events programs, talks, public service programs, etc. Critical study of scripts. Many of the programs developed by this class will be broadcast from the college studio.

Prerequisite: English 1A-1B or consent of instructor.

Three one-hour periods per week.

113. Radio Production Directing (fall)

3 units

Study of the program director's job in the average radio station, including the planning, organization, and handling of all types of radio programs: special events broadcasts, commercial programs, interviews, dramatic programs, network programs, and types of recorded programs.

Prerequisite: Speech 10 or 110 or consent of instructor.

Three one-hour periods per week.

* Not given 1949-50.

- 114. Radio Sales and Commercial Operation (fall) 3 units**
 Study of the business manager's job in the average radio station ; analysis of the costs in running a station, copy analysis and placement according to type, sales methods, analysis of programs in relation to sales possibilities, sales demands and their effect on program types, Federal Trade Commission regulations, national advertising associations, costs of programs (time and talent), making of contracts, analysis of the jobs of the essential personnel of the station, etc.
 Prerequisite : Speech 10 and 113 or consent of instructor.
 Three one-hour periods per week.
- 115. Advanced Radio Production (spring) 3-8 units**
 A study of the many aspects of the radio profession through "on the job" participation in the studios of stations KIEM and KHUM in Eureka and at the Intercollegiate Broadcasting System studios of the college. This course will be offered only to superior students who have completed 10, 110, 11, 111, 112, 113, and 114.
- *116. Music in Radio Broadcasting (spring) 3 units**
 A study of the various uses of music in the radio program involving the building and production of musical programs ; composing and conducting ; writing musical continuity ; arranging music for dramatic radio ; and inspection of the functional importance of music and its practical use in current programs.
 Prerequisite : Speech 10 or 110, 11 or 111, 113.
 Three one-hour periods per week.
- 125. Advanced Dramatic Workshop (fall, spring) 1-2 units**
 A course of the same character as Speech 25 for advanced students.
 Prerequisite : Speech 1, 2 or 3 or consent of the instructor.
 Three two-hour periods per week (for two units).
- *126. Play Production (spring) 3 units**
 A lecture and laboratory course designed primarily for teachers and students who intend to engage in the work of directing plays. Attention is given to the choice of material for amateur theatricals from a wide range of plays by representative dramatists, directing techniques, make-up, costuming, publicity, and advertising, ticket sales, house management, etc. This course includes the casting, directing, and producing of a one-act play as a final project for each student.
 Two two-hour and one one-hour periods per week.
- *127. Play Production (fall) 3 units**
 A lecture and laboratory course designed primarily for teachers and students who intend to engage in the work of staging play productions. This advanced course includes stage designing, construction, painting, lighting, sound effects, furniture, and furnishings.
 Three one-hour and one two-hour periods per week.
- *130. Advanced Playwriting (fall) 3 units**
 A continuation of Speech 30, with opportunity for each student to concentrate his activities in any one of the following fields of playwriting : one-act plays, radio plays, skits, blackouts, three-act plays, for possible production by the college drama department.
 Prerequisite : English 1A-1B or consent of instructor.
 Two two-hour periods per week.
- 140. Survey of the Drama (fall) 3 units**
 A course in the historical development of the drama, covering representative plays from the Greeks to those of present-day playwrights—Continent, England, and America.
- 141. Modern American Drama (spring) 3 units**
 A course in the American theater and its staging, acting, and drama from the Civil War to the present day. Primary emphasis in the course is placed upon the theater and drama from 1918 to the present. The course is conducted through lectures, assigned reading, discussions, and assigned reports.
 Three one-hour periods per week.

- 170. Phonetics (fall) 3 units**
 Principles of phonetics; pronunciation, based on contemporary American usage; phonetic analysis applied to speech improvement.
 Three one-hour periods per week.

- 180. Speech Correction (fall) 3 units**
 The classification, diagnosis, and treatment of speech defects. Theory supplemented by demonstrations and supervised practical work with children and adults in the speech clinics. Intended particularly for training prospective teachers to recognize and correct speech defects of elementary school children.
 Three one-hour class periods and one two-hour laboratory period per week.

- 181. Advanced Speech Correction 3 units**
 Emphasis is placed upon the more serious types of speech disorders. Special attention is given to making case studies and speech surveys as well as to methods of testing and diagnosis. Supervised clinical practice.
 Three one-hour class periods and one two-hour laboratory period per week.

- *191. Speech and Drama in the Elementary and Junior High School (fall) 3 units**
 A course designed for the teacher who is responsible for directing plays, who is interested in using dramatic activities or who seeks to improve classroom procedure by the use of discussion techniques. Conducted in seminar style, the class is a workshop for the consideration of such problems as the following: conducting round tables, panels, symposia, and forums; coaching debaters; choosing school plays; using speech and dramatics in the classroom; planning parties and social-recreational activities; planning speech activities in courses of study; selecting textbooks.
 Three one-hour periods per week.

- 199. Directed Study in Speech Problems (fall, spring) 1-3 units**
 Student assists in speech training. Consent of instructor required for enrollment.
 Hours to be arranged with the instructor.

Graduate Division

- 226. Advanced Stage Direction (spring) 3 units**
 The purpose of this course is to train teachers in the techniques of dramatic direction. The student will study problems in theory involving an examination of the various historic and modern styles of acting. Each student will produce a full length play and will prepare a prompt-book based on the production.
 Prerequisite: Graduate standing and consent of instructor.

- 227. Stage Design, Construction, Painting and Lighting 3 units**
 The purpose of this course is to train teachers in the technical aspects of play production. Each student will be given intensive training in planning, building, painting, and lighting stage sets for assemblies and dramatic productions.
 Two one-hour lectures and two two-hour laboratory periods per week.

- 241. Modern American Drama (spring) 3 units**
 See 141.

- 281. Advanced Speech Correction 3 units**
 See 181.

* Not given 1949-50.

The Division of Health and Physical Education

OBJECTIVES

The Division of Health and Physical Education has five separate and distinct functions:

1. To give all students an opportunity to acquire skill in a variety of wholesome and recreational physical activities which shall aid in maintaining health and providing development of self-expression in individual and group activities.

2. To provide curricula leading to:

- a. General Secondary Credential with major in Physical Education, enabling the student to teach in the secondary schools of the State. This program involves a year of graduate study.
- b. The Special Secondary Credential in Physical Education, enabling the student to teach Physical Education in the elementary and secondary schools of the State.

3. To provide opportunity for those interested in physical education activities to acquire techniques and principles which will enable them to serve as volunteer leaders in community groups, to prepare the prospective teacher who may find himself assigned to this field in conjunction with his specialized teaching area, and to develop an appreciation on the part of all future teachers of the vital importance of health and hygiene in the total school program.

To realize these goals, a junior high school major and a minor are offered in each subject field (i.e., physical education, and health and hygiene).

4. To prepare the general elementary teacher to handle intelligently the physical education program in the elementary schools.

5. To provide curricula leading to the A.B. Degree for graduate nurses and pre-nursing students. Also, to provide a one-year course for pre-nursing candidates who wish to continue their work elsewhere.

6. To provide a two-year terminal course in Recreational Leadership for directors of camps and recreation programs.

PHYSICAL EDUCATION

Requirement in Physical Education Activities

Students who are enrolled in the college for 12 or more units are required to take an activity course twice weekly during the first four semesters of attendance. Persons 21 years of age and veterans may be exempt from this requirement by written consent of the Division.

Women students will take one activity from each of the following groups:

(a) Freshman Activities, including a team sport; (b) dance; (c) individual sports. Freshmen women are required to take P. E. 15.

Freshmen men will take P. E. 5 and either P. E. 31 or team sports (P. E. 6 or 7) or varsity sports.

Requirements for the A.B. Degree With Major in
Health and Physical Education

General
Secondary
Credential

Special
Secondary
Credential

Lower Division

	Units	Units
P.E. 1, 2, 3, 4—Physical Education Activities	4	4
P.E. 70—Introduction to Health and Physical Education	2	2
P.E.—Activities	2-6	2-6
H.H. 1—Personal Hygiene	2	2
H.H. 55—First Aid	2	2
Engl. 1A-1B—First-Year Reading and Composition	6	6
Zool. 1A—General Zoology	4	4
Anat. 66—Human Anatomy	3	3
Chem. 2A—General Inorganic Chemistry	3	3
Physiol. 1—Elementary Physiology	3	3
Or. II—Orientation II	1	1
Psych. 1—General Psychology	3	3
Soc. Sci. (Including one-year course.) (See page 39.)	12	12
Spch. 1—Fundamentals of Speech	3	3
Restricted Electives (Chosen from Art, Music, Foreign Language, Philosophy, English 46A-46B, or 74A-74B)	6	6
Fulfillment of requirement in United States History and Constitution. (See page 40.)		
Math. A-B—Elementary Algebra and Plane Geometry if not taken in high school.		
Completion of lower division requirements for a minor. (See list on page 41.)		
Electives (lower division) to total	60	60

Upper Division

P.E. 151—Applied Kinesiology	3	3
P.E. 152—Methods in Corrective Physical Education	2	2
P.E. 153—Physiology of Exercise	2	2
P.E. 154—Tests and Measurements in Physical Education	2	2
P.E. 175—History and Principles of Physical Education	2	2
P.E. 178—Organization and Administration of Secondary School Physical Education	2	2
P.E. 191—Singing Games and Folk Dances	1	1
P.E. 192A-B—Theory of Athletics (Men) or 193A-B—Methods of Teaching Sports (Women)	4	4
H.H. 160—Public Health	3	3
H.H. 161—School Health Program	2	2
Educ. 113—Psychological and Social Foundations of Education	5	5
Educ. 153—Audio-Visual Education	2	2
Educ. 175—Core Course in Secondary Education	5	5
Educ. 190PE—Elementary School Physical Education	-	2
Educ. 195PE—The Teaching of Physical Education	2	2
Educ. 195HH—The Teaching of Health and Hygiene	2	2
Educ. 320C—Directed Teaching—Elementary School Physical Education	-	2
Educ. 340A—Directed Teaching—Secondary School Physical Education	-	3
Completion of upper division requirements for a minor.		
Electives to total	120	120
Total upper division required	40	40
Total required outside field of Health and Physical Education	60	80
Scholarship Requirements:		
In all work taken	1.00	1.00
In major and minor	1.00	1.00
In each Education course taken	1.00	1.00
For admission to Graduate Division:		
In major	1.5	
In all upper division work taken	1.5	

Graduate Year (General Secondary Credential Only)

	<i>Units</i>
Elective in Physical Education (Graduate Course)	5-6
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Elective in Education (Graduate Course)	2
Major or minor or electives (Upper Division or Graduate courses) to total at least	24
Scholarship Requirement (all work in Graduate Year)	1.75

RECREATIONAL LEADERSHIP

A two-year terminal course is suggested for students who would like to obtain employment in municipal recreation centers, state or national parks, summer camps, or other recreational areas, or for the training of volunteer workers in community youth projects. Certain basic courses are outlined, and the rest of the program may be made up from electives selected on the basis of the student's interests and vocational objectives.

RECOMMENDED SEQUENCE**Freshman Year**

	<i>Sem. 1</i>	<i>Sem. 2</i>
Botany 4 (Classification of Flowering Plants)	—	3
English 1A-1B (Reading and Composition)	3	3
Health and Hygiene 1 (Hygiene)	2	—
Health and Hygiene 55 (First Aid)	—	2
Physical Education 1-2 or 3-4	1	1
Physical Education 77 (Recreation and Campercraft)	—	2
Sociology 1A-1B (Principles)	3	3
Zoology 4 (Animal Classification)	3	—
Electives	3	1
	15	15

Sophomore Year

History 70 (United States History)	2	—
Physical Education 31 (Introductory Social Dancing)	$\frac{1}{2}$	—
Physical Education 33 (Folk Dancing)	—	$\frac{1}{2}$
Physical Education 88 (Club Leadership)	2	—
Physical Education 176 (Community Recreation)	—	2
Political Science 51 (U. S. Constitution)	—	2
Psychology 1 (General)	—	3
Speech 1 (Fundamentals)	3	—
Electives	7 $\frac{1}{2}$	7 $\frac{1}{2}$
	15	15

Recommended Electives: Art 40 (Crafts); 50 (Photography); Speech 18 (Radio Workshop); 25 (Dramatic Workshop); Geology 1A; Zoology 65 (Ornithology); Wildlife Management 2 (Conservation); 5 (Techniques); English 178 (Children's Literature); P. E. 194A-B (Officiating); Music Activities; Sociology 103 (Crime and Delinquency); or 106 (The Community). The student must comply with rules governing admission to upper division classes.

If a student is interested in a degree program emphasizing Recreational Leadership, a group major may be arranged. See page 145.

REQUIREMENTS FOR

Junior High School Major		Minor	Minor for Candidates for General Secondary Credential		
Lower Division		Lower Division	Lower Division		
H.H. 1 -----	2 units	H.H. 1 -----	2 units	H.H. 1 -----	2 units
H.H. 55 -----	2 units	H.H. 55 -----	2 units	H.H. 55 -----	2 units
P.E. 1, 2, 3, 4 -----	4 units	Men		P.E. 1, 2, 3, 4 -----	4 units
P.E. 70 -----	2 units	P.E. 1, 2 -----		P.E. 70 -----	2 units
P.E. 77 -----	2 units	2 units		P.E. 77 -----	2 units
		Women			
		P.E. 15 -----		$\frac{1}{2}$ unit	
		P.E. 16A -----		$\frac{1}{2}$ unit	
		P.E. 17A -----		$\frac{1}{2}$ unit	
		P.E. 18A -----		$\frac{1}{2}$ unit	
Upper Division		Upper Division	Upper Division		
Educ. 195HH -----	2 units	Educ. 195HH -----	2 units	A minimum of ----- 9 units	
H.H. 161 -----	2 units	P.E. 190 -----	2 units	(Chosen with the approval	
P.E. 175 -----	3 units	P.E. 191 -----	1 unit	of Divisional Chairman)	
P.E. 176 -----	2 units				
P.E. 190 -----	2 units				
P.E. 191 -----	1 unit				
Men		Men			
P.E. 192 -----	4 units	P.E. 192 -----		4 units	
Women		Women			
P.E. 193 -----	4 units	P.E. 193 -----		4 units	
Totals units required :					
28 units		15 units		21 units	

Additional requirements for the Junior High School Credential are given in detail on pages 54-55.

DESCRIPTION OF COURSES

COURSES FOR MEN

Lower Division

- 1, 2, 3, 4. Physical Education Activities 1 unit each course
Required of all men who elect physical education as a major and to be taken in the lower division. The object of the courses is to develop skill in and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Along with learning these skills, the student will learn sound technics in teaching.
5. Freshman Physical Activities (fall, spring) 1 unit
Fundamentals of team and individual sports, together with some achievement tests.
Required of all freshmen and limited to freshmen.
Two one-hour periods per week.
6. Team Sports (fall) 1 unit
Touch football, volleyball, and handball.
Two one-hour periods per week.
7. Team Sports (spring) 1 unit
Basketball, track, and softball.
Two one-hour periods per week.

8. **Individual Sports** (fall, spring) ½ unit
 Boxing, wrestling.
 Two one-hour periods per week.
9. **Individual Sports** (fall, spring) ½ unit
 Tumbling and Trampoline.
 Two one-hour periods per week.
10. **Body Building** (spring) ½ unit
 Two one-hour periods per week.
50. **Intercollegiate Football** (fall) 1 unit
 Varsity and Junior Varsity teams.
 Daily afternoon practice.
51. **Intercollegiate Basketball** (fall and spring) ½ unit
 Varsity and Junior Varsity teams.
 Daily afternoon practice.
52. **Intercollegiate Baseball** (spring) 1 unit
 Varsity and Junior Varsity teams.
 Daily afternoon practice.
53. **Intercollegiate Track** (spring) 1 unit
 Varsity team.
 Daily afternoon practice.
54. **Intercollegiate Boxing** (fall and spring) ½ unit
 Two one-hour periods per week.

Upper Division

- 192A. **Theory of Athletics** (fall) 2 units
 Coaching techniques in football and basketball.
 Prerequisite: Upper division status.
 Two one-hour periods per week.
- 192B. **Theory of Athletics** (spring) 2 units
 Coaching techniques in baseball, track and field.
 Prerequisite: Upper division status only.
 Two one-hour periods per week.
- 194A. **Football Officiating** (fall) 1 unit
 The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials.
 One two-hour period per week.
- 194B. **Basketball Officiating** (fall) 1 unit
 The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials.
 One two-hour period per week.

COURSES FOR WOMEN

Lower Division

- 1, 2, 3, 4. **Physical Education Activities** 1 unit each course
 Required of all women who elect physical education as a major and to be taken in the lower division. The object of the courses is to develop skill in and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Along with learning these skills, the student will learn sound technics in teaching.

15. Freshman Physical Activities (fall)

$\frac{1}{2}$ unit

A course to give the entering student an opportunity to participate in activities which demand and develop fundamental skills, such as running, throwing, catching, and relaxing, in at least one team game, and in activities which help correct the more prevalent deviations from normal body mechanics.

Required of all freshmen women and limited to freshmen.

Two one-hour periods per week.

16. Team Sports (fall)

$\frac{1}{2}$ unit

Field hockey, soccer, speedball.

Two one-hour periods per week.

17. Team Sports (spring)

$\frac{1}{2}$ unit

Basketball, softball, volleyball.

Two one-hour periods per week.

18A. Beginning Dance (fall)

$\frac{1}{2}$ unit

Introduction to modern dance technique.

Two one-hour periods per week.

18B. Intermediate Dance

$\frac{1}{2}$ unit

Two one-hour periods per week.

18C. Advanced Dance

$\frac{1}{2}$ unit

Two one-hour periods per week.

Upper Division

193A. Methods of Teaching Team Sports

2 units

Field hockey, soccer, softball, volleyball, speedball, basketball.

Prerequisite: Previous participation.

193B. Methods of Teaching Individual Sports

2 units

Tennis, archery, badminton, recreational sports.

Prerequisite: Previous participation.

COURSES FOR MEN AND WOMEN

Lower Division

25. Individual Exercise Program (fall, spring)

$\frac{1}{2}$ unit

A program of special exercise and activity suited to the individual student.

Two one-hour periods per week.

27A. Elementary Tennis (fall, spring)

$\frac{1}{2}$ unit

Two one-hour periods per week.

27B. Intermediate Tennis (fall, spring)

$\frac{1}{2}$ unit

Two one-hour periods per week.

27C. Advanced Tennis (fall, spring)

$\frac{1}{2}$ unit

Two one-hour periods per week.

28A. Elementary Archery (fall, spring)

$\frac{1}{2}$ unit

Two one-hour periods per week.

28B. Advanced Archery (fall, spring)

$\frac{1}{2}$ unit

Two one-hour periods per week.

29A. Badminton (fall, spring)

$\frac{1}{2}$ unit

Badminton, deck tennis, paddle tennis, table tennis.

Two one-hour periods per week.

29B. Advanced Badminton (fall, spring)

$\frac{1}{2}$ unit

Two one-hour periods per week.

- 30A. Elementary Golf** (fall, spring) ½ unit
Two one-hour periods per week.
- 30B. Advanced Golf** (fall, spring) ½ unit
One two-hour period per week.
- 31. Introductory Social Dancing** (fall) ½ unit
An introductory course including both ballroom and folk dancing.
Two one-hour periods per week.
- 32. Ballroom Dancing** (spring) ½ unit
Basic dance techniques; fox trot, waltz, tango, and current routines. Dance etiquette.
- 33. Folk Dancing** (fall, spring) ½ unit
Two one-hour periods per week.
- 36. Bowling** ½ unit
Two one-hour periods per week.
- 38. Technique of Casting** ½ unit
Flycasting, plug casting, bait fishing, lake fishing, stream fishing, surf fishing, and deep-sea fishing.
Two one-hour periods per week.
- 55. Intercollegiate Tennis** (spring) 1 unit
Daily afternoon practice.
- 56. Intercollegiate Golf** (spring) 1 unit
Daily afternoon practice.
- 70. Introduction to Health and Physical Education** (spring) 2 units
The origins, aims and objectives of the modern school program in health and physical education are studied to enable the student to formulate a fundamental background and a basic philosophy for his profession. There is an emphasis on integration with the total school program.
- 77. Recreation and Campcraft** (spring) 2 units
Thorough theoretical background and some practical laboratory experience in playground work.
- 88. Club Leadership** 2 units
History of boys' and girls' club work; the basic principles and conceptions of these movements; the organization of such a program in the community; requirements for adult leadership; summer camps. This course will include practice in laboratory field work.

Upper Division

- 151. Applied Kinesiology** (fall) 3 units
Study of the anatomy of muscles, bones, joints and of the nervous system as a basis for understanding bodily movement in exercise and sports.
Three one-hour periods per week.
- 152. Methods in Corrective Physical Education** (spring) 2 units
The principles underlying good body mechanics; the causes, correction, and prevention of postural defects; methods of relaxation; the place of Corrective Physical Education in the school program; equipment facilities and procedure; fundamentals and practice of massage. Much of the work is practical.
Prerequisite: Physical Education 151.
Two one-hour periods per week.

- 153. Physiology of Exercise** (fall) **2 units**
 The physiological effects of muscular exercise, athletic training and physical conditioning are studied. The significance of these effects are evaluated in terms of performance in physical education activities and interscholastic competition.
 Prerequisite: Physiology 1 and Anatomy 66.
 Two one-hour periods per week.
- 154. Tests and Measurements in Physical Education** (fall) **2 units**
 The use of tests and measurements in physical education; evaluation of objectives, programs and student achievement through measurement and evaluative techniques.
 Prerequisite: Education 115 (may be taken concurrently).
- 175. History and Principles of Physical Education** (fall) **2 units**
 The evaluating of the history of physical education, the weighing of current problems in the field, the setting up of a code of ethics for professional workers, and the formulating of aims and objectives.
 Three one-hour periods per week.
- 176. Principles of Community Recreation** (spring) **2 units**
 A consideration of the principles involved in developing an ideal program of recreation. Some practical experience in organizing college recreational activities is required.
 Two one-hour periods per week.
- 178. Organization and Administration of Secondary School Physical Education** (fall, spring) **2 units**
 Two one-hour periods per week.
- 190. Elementary School Physical Education** (fall, spring) **2 units**
 (See Education 190PE.)
 The organization of the physical education program in grades one through eight.
 Two class and one observation hours per week.
- 191. Methods in Singing Games and Folk Dances** (fall, spring) **1 unit**
 Participation in and conduct of rhythms suitable for children of the elementary school and junior high school.
 Two one-hour periods per week.

Graduate Division

- 289. Techniques of Research in Physical Education** **2-3 units**
 Research and investigation in the problems of health, physical education and recreation. Hours to be arranged in terms of the investigation.
- 292. Advanced Coaching Techniques** **2 units**
 The theory and practice of advanced coaching techniques as related to interscholastic and collegiate competition.
- 299. Problems in Health, Physical Education and Recreation** **2-4 units**
 A study of selected problems in health, physical education and recreation. A survey of current problems facing the physical educator from a review of literature, consideration of trends and analysis and evaluation of school situations.

HEALTH AND HYGIENE

Graduate nurses from accredited nursing schools with three years of training who hold California certification as registered nurses may be granted the Bachelor of Science degree upon the completion of an approved program of study, as outlined below.

Students who complete an approved two-year curriculum in the State College followed by graduation from an accredited nursing school based upon three years of training, may receive the Bachelor of Science Degree from the College. The essential requirements for a degree established by the State Department of Education must be fulfilled. Some adjustments in the program may be made to suit the curricular requirements of the hospital to which the student expects to transfer.

The major requirements for these two programs are presumed to be satisfied by the work in nursing, a total of 60 units being allowed for the three-year nursing course.

<i>Require- ments for</i>	<i>Degree with Major in Nursing</i>	<i>Graduate Nurses</i>	<i>Pre-Nursing Students</i>
		<i>Units</i>	<i>Units</i>
Engl. 1A-1B—First-Year Reading and Composition-----		6	6
H. E. 20—General Nutrition (including laboratory work)----		-	3
Nat. Sci.—Electives (See page 39.)-----		12	-
Anat. 66—Human Anatomy-----		-	3
Bact. 1—General Bacteriology-----		-	5
Chem. 2A—General Inorganic Chemistry-----		-	3
Physiol. 101—Human Physiology-----		-	3
Science Elective—(Recommended Biology 103, 114, or Zoology 160)-----		-	3
P. E.—Activities (Including P. E. 15)-----		2	2
Psych. 1—General Psychology-----		3	3
Soc. Sci.—(Including at least one year-course) (See page 39.)		12	12
Electives (Restricted)—(Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B, or 74A-74B)-----		6	6
Math. A-B—Elementary Algebra and Plane Geometry, if not taken in high school.			
Fulfillment or requirement in United States History and Con- stitution. (See page 40.)			
Completion of requirements for a minor. (See list on page 40.)		6-12	*
Electives to bring total to-----		68	68
Scholarship requirement on all work taken-----		1.00	1.00

UNIVERSITY OF CALIFORNIA SCHOOL OF NURSING

Students who expect to enter hospitals maintained by the University of California or Stanford University must conform to the entrance requirements for those institutions, and plan their college programs to meet the undergraduate patterns prescribed. In general, the courses outlined below fulfill the requirements for transfer to the University of California School of Nursing.

Subject A

Elementary Algebra and Plane Geometry (if not taken in high school)

Year course ¹ -----	6 units
English 1A-1B or Speech 1, and 2 or 3-----	6 units
Foreign Language ¹ -----	16 units
Natural Science-----	21 units
(Chemistry 1A, 8, Bacteriology 1, Anatomy 66, Physiology 1)	
Philosophy 6A-6B-----	6 units
Physical Education-----	2 units
Psychology 1-----	3 units
Political Science 51 and History 70-----	4 units

* The course prescribed for pre-nursing students provides for a minor in natural sciences. No courses in addition to those listed above are necessary.

¹ See A.A. Degree requirements of University of California, page 42.

One-Year Curriculum

The one-year pre-nursing program has been outlined to meet the needs of students who wish to take their professional training in one of the nursing schools which require one year of college work as prerequisite to admission.

Recommended Sequence

	<i>Sem. 1</i>	<i>Sem. 2</i>
Anatomy 66 -----	-	3
Bacteriology 1 -----	5	-
Chemistry 2A -----	3	-
English 1A -----	-	3
Physiology 1 -----	-	3
Psychology 1 -----	-	3
Electives -----	7	2
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
	15$\frac{1}{2}$	14$\frac{1}{2}$

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division		
H.H. 1 ----- 2 units	H.H. 1 ----- 2 units	H.H. 1 ----- 2 units
H.H. 55 ----- 2 units	H.H. 55 ----- 2 units	H.H. 55 ----- 2 units
Anat. 66 ----- 3 units	H.Ec. 20 ----- 2 units	Anat. 66 ----- 3 units
H.Ec. 20 ----- 2 units		H.Ec. 20 ----- 2 units
Physiol. 1 ----- 3 units		Physiol. 1 ----- 3 units
Upper Division		
P.E. 151 ----- 3 units	H.H. 160 ----- 3 units	Ed. 195H.H. -- 2 units
P.E. 152 ----- 2 units	H.H. 161 ----- 2 units	H.H. 160 ----- 3 units
H.H. 160 ----- 3 units	Ed. 195H.H. -- 2 units	H.H. 161 ----- 2 units
H.H. 161 ----- 2 units		
Ed. 195H.H. -- 2 units		
Total units required ----- 24 units	Total units required ----- 13 units	Total units required ----- 19 units

Additional requirements for the Junior High School Credential are given in detail on pages 54-55.

A liberal arts group major which includes Health and Hygiene may be arranged in consultation with the student's adviser and the Registrar's office. See page 145.

DESCRIPTION OF COURSES**Lower Division****1. Personal Hygiene (fall, spring) 2 units**

The basic principles of healthful living. Informational personal hygiene with consideration of the physical, mental and social well-being of the individual. Deals with the principles of healthful living and assists students to make a conscious adjustment to their environment.

Two one-hour periods per week.

50. Home Nursing (fall, spring) 2 units

Students completing this course and passing the examination will be granted the Red Cross Home Nursing Certificate.

Two one-hour periods per week.

55. First Aid (fall, spring)

2 units

This course conforms to the standards of the American Red Cross. Lectures, practical demonstrations, and practice periods. Those passing the written tests and practical demonstrations will receive the Standard and Advanced Red Cross First Aid Certificates.

Two one-hour periods per week.

Upper Division

156. Techniques in Athletic Training

2 units

Care and prevention of athletic injuries, taping, bandaging, massage, manipulation, and heat therapy.

Two one-hour periods per week.

160. Public Health

3 units

A survey of the field of public health, including disease prevention and control; the social, medical, and economic aspects of sickness and disability, with special emphasis on administrative programs of federal, state, and local health agencies.

Three one-hour periods per week.

161. School Health Program (fall)

2 units

Designed for teachers of health in the public schools. Basic personal, community, and school health problems; content and materials essential in health instruction. Includes techniques of measuring and evaluating health status and health practices.

Two one-hour periods per week.

Related Courses in Other Departments

Anatomy 66 (Human Anatomy)	3 units
Bacteriology 1 (General Bacteriology)	5 units
Biology 103 (Micro-Technique)	2 or 3 units
Home Economics 20 (Nutrition and Foods)	2 units
Home Economics 120 (Dietetics)	3 units
Home Economics 150 (Child Care)	2 units
Physical Education 151 (Applied Kinesiology)	3 units
Physical Education 152 (Methods in Corrective Physical Education)	2 units
Physical Education 153 (Physiology of Exercise)	2 units
Physiology 1 (Elementary Physiology)	5 units

The Division of Language and Literature

English Language and
Literature
Journalism

Foreign Languages and
Literature

OBJECTIVES

The objectives of the Division of Language and Literature are:

1. To offer courses for all students that will enrich cultural and social backgrounds, provide improved use of communication skills, enrich personalities, and stimulate active participation in world citizenship through a study of the language, literature, and life of the people of this and other lands.
2. To offer courses that will aid in developing a general background in English for those training to become teachers in the elementary and secondary schools of the State.
3. To provide curricula leading to:
 - a. General Secondary Credential with major in English-Speech, enabling the student to teach in the secondary schools of the State. This program involves a year of graduate study.
 - b. Graduate study for advanced degrees in the field of English.
 - c. A cultural education with emphasis upon English.
 - d. Professional work in the field of Journalism.
4. To enable the student to read the French or Spanish languages for recreative, for cultural, and for vocational purposes.
5. To enable the student to pronounce, to understand, and to use the foreign language orally within the limits of class material.
6. To give the student knowledge of the foreign country and its people.
7. To integrate foreign language study with other fields, such as English, Social Science, Music, Art, Drama, etc.
8. To provide courses for:
 - a. A Junior High School major in English.
 - b. Minors in English, Journalism, French, and Spanish.
 - c. A two-year Terminal Curriculum in Journalism.

ENGLISH

<i>Requirements for the A.B. Degree With Major in English</i>	<i>General Secondary Credential</i>	<i>Liberal Arts (without a teaching credential)</i>
Lower Division	<i>Units</i>	<i>Units</i>
Engl. 1A-1B—First-Year Reading and Composition_____	6	6
Eng. 46A-46B—Survey of English Literature_____	6	6
Speech 1—Fundamentals of Speech_____	3	—
Speech 2—Oral Interpretation of Literature <i>or</i> Speech 3—Public Speaking _____	3	—
Foreign Language _____	—	10 *
Nat. Sci.—Electives (See page 39) _____	12	12 *

* The ten units in foreign language must be in not more than two languages. Each year of high school foreign language will be counted in satisfaction of three units of this requirement. Part of requirement may be satisfied by upper division courses.

If a student expects to take graduate work at the University of California, he should consult the requirements in Foreign Language and Natural Sciences as given on page 42.

<i>Requirements for the A.B. Degree With Major in English</i>		<i>General secondary credential</i>	<i>Liberal Arts (without a teaching credential)</i>
Lower Division—Continued		<i>Units</i>	<i>Units</i>
Or. II—Orientation II		1	—
P.E. Activities (including P.E. 5 or 15)		2	2
Psych. 1—General Psychology		3	3
Soc. Sci. (including one-year course)		12	12
Restricted Electives (chosen from Art, Music, Philosophy; and for General Secondary, Foreign Language)		6	6
Fulfillment of requirement in United States History and Con- stitution. (See page 40.)			
Math. A-B—Elementary Algebra and Plane Geometry, if not taken in high school.			
Completion of lower division requirements for a minor. (See lists on page 41.)			
Electives (lower division) to total		60	60
Upper Division		<i>Units</i>	<i>Units</i>
Engl. 112—Phonetics <i>or</i>			
Engl. 115—The English Language		3	—
Engl. 136A— <i>or</i>			
Engl. 136B—American Literature		3	—
Engl. 160—Chaucer		—	3
Engl. 162—Shakespeare		3	3
Electives in Upper Division English		—	18
Electives—Chosen from:			
Engl. 154—Age of Swift and Pope	}	9	—
Engl. 155—The Romantic Period			
Engl. 157—The Victorian Period			
Engl. 160—Chaucer			
Engl. 171—Survey of Drama			
Spch. 126-127—Play Production		6	—
Educ. 113—Psychological and Social Foundations of Edu- cation		5	—
Educ. 153—Audio-Visual Education		2	—
Educ. 175—Core Course in Secondary Education		5	—
Educ. 195E—The Teaching of English		2	—
Completion of upper division requirements for a minor.			
Electives to total		120	120
Total Upper Division required		40	40
Total required outside English-Speech field		60	60
Scholarship requirements:			
In all work taken		1.00	1.00
In major and minor		1.00	1.00
In each Education course taken		1.00	
For admission to Graduate Division:			
In major		1.5	
In all upper division work taken		1.5	
Graduate Year (General Secondary Credential Only)		<i>Units</i>	
Engl. 219—Old English <i>or</i>			
Engl. 288—Principles and Practice of Literary Criticism			3
Educ. 265—Guidance in Education			2
Educ. 275—Seminar in Secondary Education			2
Educ. 340A-340B—Directed Teaching in the Secondary School			6
Elective in Education (Graduate Course)			2
Major or minor or electives (Upper Division or Graduate Course) to total at least			24
Scholarship Requirement (all work in Graduate Year)			1.75

REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN SPEECH AND ENGLISH

(This curriculum is outlined in detail on page 85)

TWO-YEAR TERMINAL CURRICULUM IN JOURNALISM

RECOMMENDED SEQUENCE

Freshman Year

	Sem. 1	Sem. 2
English 1A-1B (Reading and Composition)-----	3	3
B.A. 2A (Typing I)-----	2	—
HH 1 (Hygiene)-----	—	2
Science elective-----	3	3
Pol. Sci. 1A-1B (Introduction to Government)-----	3	3
History 70 (United States History)-----	2	—
Art 50 (Photography)-----	—	2
Social Science elective-----	3	3
Phys. Educ. (Activities)-----	$\frac{1}{2}$	$\frac{1}{2}$
	16$\frac{1}{2}$	16$\frac{1}{2}$

Sophomore Year

Journalism 20 (Newsriting)-----	3	—
Journalism 21 (Reporting)-----	—	3
Journalism 29 (Press Photography)-----	—	1
Economics 1A-1B (Principles)-----	3	3
B.A. 14A-14B (Accounting)-----	3	3
English 46A-46B (Survey of English Literature)-----	3	3
Science elective-----	3	3
Phys. Educ. (Activities)-----	$\frac{1}{2}$	$\frac{1}{2}$
	15$\frac{1}{2}$	16$\frac{1}{2}$

NOTE: Students with special interests in Journalism which are not included in the suggested two-year curriculum are invited to consult with the Journalism adviser. The scope of the program is limited only by the general college requirements.

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor in Journalism</i>
Lower Division		Journalism 20--- 3 units
Eng. 1A-1B --- 6 units	Eng. 1A-1B ----- 6 units	Journalism 21--- 3 units
Eng. 46A-46B_ 6 units	Recommended: Eng. 46A-46B.	
Upper Division		
12 units U. D. English	6 units U. D. English.	Journalism (U. D.) ----- 6 units
Recommended:	Recommended:	
Eng. 115 --- 3 units	Eng. 115 ----- 3 units	
Eng. 136A or	Eng. 136A or	
136B --- 3 units	136B ----- 3 units	
Eng. 162 --- 3 units		
One of the later period courses -- 3 units		
Total units required ---24 units	12 units	12 units

Additional requirements for the Junior High School Credential are given in detail on pages 54-55.

Teaching Minors for Candidates for General Secondary Credentials			
English		Journalism	
Lower Division			
Eng. 1A-1B	6 units	English 1A-1B	6 units
Eng. 46A-46B	6 units	Journalism 20	3 units
		Journalism 21	3 units
Upper Division			
Eng. 136A or 136B	3 units	Journalism 122	3 units
Eng. 162	3 units	6 units Upper Division	
3 units chosen from Eng. 154, 155, 157	3 units	Journalism	6 units
Total units required	21 units		21 units

DESCRIPTION OF COURSES**Lower Division**

- Subject A. English Composition** (fall, spring) **3 units**
 A study of the fundamentals of English grammar, usage, punctuation, and mechanics, with some practice in writing. Required of those who fail the test in "Subject A." Not applicable toward degree requirement in English.
 Three one-hour periods per week.
- 1A. First-year Reading and Composition** (fall, spring) **3 units**
 Emphasis on expository writing, with supplementary reading.
 Prerequisite: The passing of the Subject A test, or a passing grade in the Subject A course.
 Three one-hour periods per week.
- 1B. First-year Reading and Composition** **3 units**
 An introduction to the study of literature with further training in writing.
 Prerequisite: English 1A.
- 5. Creative Writing** (See Eng. 105) **3 units**
- 8. Playwriting** (fall) **3 units**
 See Speech 30.
- 46A. Survey of English Literature** (fall) **3 units**
 The beginning of English literature and the main aspect of its development down to the Restoration (1660).
 Prerequisite: English 1B.
 Three one-hour periods per week.
- 46B. Survey of English Literature** (spring) **3 units**
 The leading movements in the development of English literature from the Restoration (1660).
 Three one-hour periods per week.
- *74A. Masterpieces of World Literature** **3 units**
 Begins with Homer; goes through the Renaissance.
 Three one-hour periods per week.
- *74B. Masterpieces of World Literature** **3 units**
 From the Renaissance.
 74A is not prerequisite to 74B.
 Three one-hour periods per week.

* Not given 1949-50.

Upper Division

English 1A-1B is prerequisite to all upper division courses in English.

- 105. Creative Writing** (fall, spring) **3 units**
 Course emphasizes developmental writing and aims toward effective, purposeful expression in various literary forms.
 Prerequisite: Consent of instructor.
 Three one-hour periods per week.
- 108. Advanced Playwriting** (See Speech 130) **3 units**
 Suggested as an elective; not a part of an English major or minor.
- 112. Phonetics** (fall) **3 units**
 See Speech 170.
- 115. The English Language** **3 units**
 A study of tendencies that have changed and are changing the language; designed to give some basis for deciding questions of grammar, usage, and pronunciation.
 Three one-hour periods per week.
- 136A. American Literature** **3 units**
 A study of American literature from Colonial times to the middle of the nineteenth century.
 Three one-hour periods per week.
- 136B. American Literature** **3 units**
 American literature from the middle of the nineteenth century to the present.
 A study and appraisal of authors and their works contributing to the American scene.
- *142A. The Novel** **3 units**
 The English novel from Defoe through Scott. Students will read and study the novel, its origin, its development as a literary form.
 Three one-hour periods per week.
- *142B. The Novel** (fall) **3 units**
 The English novel from Dickens to contemporary writers. This is a continuation of course 142A, though 142A is not a prerequisite to 142B.
 Three one-hour periods per week.
- *153. The Age of Elizabeth** **3 units**
 Prose and poetry, exclusive of the drama.
 Three one-hour periods per week.
- *154. The Age of Swift and Pope** (fall) **3 units**
 A study of the development of English prose and poetry during the Augustan age.
 Three one-hour periods per week.
- *155. The Romantic Period** (spring) **3 units**
 English literature from 1784 to 1837: Cowper, Blake, Burns, Wordsworth, Coleridge, Lamb, Byron, Shelley, Keats, De Quincey.
 Three one-hour periods per week.
- 157. The Victorian Period** (fall) **3 units**
 English literature from 1837 to 1900: Carlyle, Macaulay, Newman, Tennyson, Browning, Fitzgerald, Ruskin, Arnold, Rosetti, Pater, Stevenson, Swinburne, Wilde, Thompson, Hardy, Kipling, Housman.
 Three one-hour periods per week.
- *160. Chaucer** (fall) **3 units**
- *162. Shakespeare** (spring) **3 units**
- 171. Survey of the Drama** (See Speech 140) **3 units**

* Not given 1949-50.

178. Children's Literature (spring)**3 units**

A survey course intended to give an understanding and appreciation of the best literature for children of all ages. Books by notable contemporary authors and artists are read and discussed as well as traditional and classical literature. Attention is given to reading guidance and the stimulation of wider use of books for study and recreation. Required for candidates for the Kindergarten-Primary, the General Elementary and the General Junior High School Credentials. Not applicable toward an English major or minor.

Three one-hour periods per week.

184. Twentieth Century Literature (spring)**3 units**

A study of current literary trends, and of leading modern writers in England and America.

Three one-hour periods per week.

Graduate Division**219. Old English****3 units**

Elements of Old English Grammar with reading exercises.

288. Principles and Practice of Literary Criticism**3 units**

The principles and practice of literary criticism from Plato and Aristotle to the present. The aim will be to use the heritage of the past criticism for the development of the student's own powers of evaluation, and for the understanding of the materials and techniques of critical judgment and aesthetic response which the prospective teacher may need to foster literary appreciation in his pupils.

JOURNALISM

Note: Ability to type is necessary in all journalism courses.

English 1A-1B is prerequisite to all courses in journalism.

Lower Division**20. Newswriting****3 units**

A study of what constitutes constructive news, of the sources of news, and of the type of writing used in news stories.

Three one-hour periods per week.

21. Reporting*3 units**

The writing of news stories for the college paper and for the college news bureau.

Prerequisite: Journalism 20, or consent of instructor.

Three one-hour periods per week.

29. Press Photography*1 unit**

A study of the qualities in photography which are important to reproduction by the various methods of printing.

One one-hour period per week.

Prerequisite: Art 50 and consent of the instructor.

Upper Division**122. Copyreading****3 units**

The methods of editing newspaper copy and the writing of headlines.

Prerequisite: Journalism 20.

Three one-hour periods per week.

124. Feature Writing*3 units**

A study of the various types of feature articles and the writing of features by the student.

Prerequisite: Journalism 20.

Three one-hour periods per week.

125. Retail Advertising*3 units**

The planning and execution of advertising for retailers, the principles of advertising layout, the newspaper and other media, and the management of advertising accounts.

Prerequisite: Journalism 20.

Three one-hour periods per week.

* Not given 1949-50.

***126. Editorial Writing**

3 units

Discussion of current news and the writing of editorials on appropriate items.

Prerequisite: Journalism 20.

Three one-hour periods per week.

MODERN LANGUAGES

MINOR REQUIREMENTS

	<i>Minor in French †</i>	<i>Minor in Spanish †</i>
Lower Division	French 1A-1B -----6 units (Two years of high school French may be substituted for 1A-1B) French 2A -----3 units French 2B -----3 units French 8A -----1 unit	Spanish 1A-1B -----6 units (Two years of high school Spanish may be substituted for 1A-1B) Spanish 2A -----3 units Spanish 2B -----3 units
Upper Division	French 105A-105B ----6 units	Spanish 105A-105B ----6 units
Total units required	13-19 units	12-18 units

† Students interested in a General Secondary minor in French or Spanish should consult the department.

DESCRIPTION OF COURSES

FOREIGN LANGUAGE

11A. Foreign Language Pronunciation (fall)

2 units

Pronunciation of French, German, Italian and Spanish. Designed primarily for students of music, radio, and speech. Elective credit only.

Two one-hour periods per week.

FRENCH

Lower Division

1A. Elementary French (fall)

3 units

Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.

Four one-hour periods per week.

1B. Elementary French (spring)

3 units

Continuation of French 1A.

Prerequisite: French 1A or one year of high school French.

Four one-hour periods per week.

2A. Intermediate French (fall)

3 units

Reading of modern short stories, novels, plays, and works descriptive of French civilization. Review of essentials of grammar, conversation.

Prerequisite: French 1B or two years of high school French.

Three one-hour periods per week.

2B. Intermediate French (spring)

3 units

Continuation of French 2A.

Prerequisite: French 2A or equivalent.

Three one-hour periods per week.

5A-5B. Advanced Reading (year)

3-3 units

Introduction to French literature.

Prerequisite: French 2B or equivalent.

Three one-hour periods per week.

* Not given 1949-50.

8A. French Pronunciation (spring)**1 unit**

Prerequisite: French 1A or one year of high school French.

One one-hour period per week.

Upper Division**105A-105B. Survey of French Literature (year)****3-3 units**A brief survey of French literature from its beginning to the present time.
Extensive reading of works of representative authors of all periods.

Prerequisite: French 2B or four years of high school French.

Three one-hour periods per week.

SPANISH**Lower Division****1A. Elementary Spanish (fall)****3 units**

Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.

Four one-hour periods per week.

1B. Elementary Spanish (spring)**3 units**

Continuation of Spanish 1A.

Prerequisite: Spanish 1A or one year of high school Spanish.

Four one-hour periods per week.

2A. Intermediate Spanish (fall)**3 units**

Reading of modern short stories, novels, plays, and works descriptive of Latin-American civilization. Review of essentials of grammar, conversation.

Prerequisite: Spanish 1B or two years of high school Spanish.

Three one-hour periods per week.

2B. Intermediate Spanish (spring)**3 units**

Continuation of Spanish 2A.

Prerequisite: Spanish 2A or equivalent.

Three one-hour periods per week.

5A.-5B. Advanced Reading (year)**3-3 units**

Introduction to Spanish Literature.

Prerequisite: Spanish 2B or equivalent.

Three one-hour periods per week.

Upper Division**105A-105B. Survey of Spanish Literature (year)****3-3 units**A brief survey of Spanish literature from its beginning to the present time.
Extensive reading of representative authors of Spain and Latin America.

Prerequisite: Spanish 2B or four years of high school Spanish.

Three one-hour periods per week.

The Division of Natural Sciences

Biological Sciences
Physical Sciences

Mathematics
Engineering

OBJECTIVES

The objectives of the Division of Natural Sciences are to provide :

1. A general background in natural sciences for those training to become teachers in the elementary and secondary schools of the State.
2. Curricula leading to :
 - a. General Secondary Credential with major in Life Science and General Science, enabling the student to teach in the secondary schools of the State ; this program involves a year of graduate work.
 - b. The B.S. Degree in Wildlife Management.
 - c. The B.S. Degree in Fisheries.
 - d. The A.B. Degree in Biological Sciences, with differentiated majors in Biology, Botany, and Zoology, for :
 - (1) Students interested in research or graduate study in these fields.
 - (2) Candidates for state or federal civil service positions in the Biological Sciences.
 - e. The A.B. Degree in Pre-Medical Sciences.
3. Lower division preparatory or pre-professional curricula for students of agriculture, animal and plant science, dentistry, forestry, laboratory technology, nursing, optometry, pharmacy, veterinary science, pollution control.
4. Lower division curricula in mathematics and physical science for engineering
5. Minors in Biology, Botany, Zoology, Chemistry, Wildlife Management, and Mathematics, designed to furnish a cultural background in the natural sciences and an appreciation of the scientific philosophy.

PRE-MEDICAL SCIENCES

Minimum requirements for admission to Class A medical colleges have been set up by the Council on Medical Education of the American Medical Association. Most medical schools, however, set up admission standards in excess of these minimums. For pre-medical students, a broad general education is prescribed, with emphasis on biological and physical sciences. This is probably best done by completing the requirements for a bachelor's degree before entering medical school. In some instances, students will be accepted by medical schools after the completion of 90 semester units of college work which includes the required courses.

The student should check the institutional requirements of the medical school he expects to enter. If he expects to transfer to the University of California, he should follow the requirements for the Associate in Arts degree (as given on page 42), and must also include 8 units in a modern foreign language as part of the 16 units required.

Since acceptance by the medical school is conditioned largely upon scholarship, particularly in the required subjects, pre-medical students are urged to bear in mind the importance of distinctly high scholarship in the undergraduate work.

Many medical schools are now requiring all candidates to have taken the Medical College Admission Test during the year previous to expected admission. The student should consult his adviser about this test.

The prescribed course of study meets the standards established by the American Medical Association as well as the requirements for graduation from this College.

NATURAL SCIENCES

Requirements for the A. B. Degree with Majors in	Life and General Sciences (General Secondary Credential)	Liberal Arts				
		Biol- ogy	Bot- any	Zool- ogy	Pre- Medical	
		(Without a teaching credential) Note: Starred courses are recom- mended, not required.				
Lower Division						
Biological Sciences:	Units	Units	Units	Units	Units	
Biol. 10A-10B—General Biology	8	6	—	—	—	
Bot. 1A-1B—General Botany	—	—	8	—	—	
Bot. 4—Classification of Flowering Plants.....	—	3	—	3	—	
Zool. 1A-1B—General Zoology.....	8	—	—	8	8	
Zool. 4—Animal Classification.....	—	3	3	—	—	
Physical Sciences:						
Phys. Sci. 5A-5B—Survey of Physical Sci- ences or High School Physics.....	—	0-6	0-6	0-6	—	
Chem. 1A-1B—General Inorganic Chemistry.....	—	—	—	—	10	
Chem. 2A-2B—General Chemistry	6 ¹ or	6	6	6	—	
Chem. 8—Organic Chemistry Lectures.....	—	3	3	3	—	
Phys. 2A-2B—General Physics Lectures.....	(6)	6*	6*	6*	6	
Phys. 3A-3B—General Physics Laboratory...	—	—	—	—	2	
Art 50—Elementary Photography.....	2*	—	—	—	—	
Engl. 1A-1B—First-Year Reading and Composition	6	6	6	6	6	
Foreign Languages (In one or two languages).....	—	—	—	—	10 ³	
Or. II—Orientation II.....	1	—	—	—	—	
P.E. Activities (Including P.E. 5 or 15).....	2	2	2	2	2	
Psych. 1—General Psychology.....	3	3	3	3	3	
Soc. Sci.—(Including one year-course).....	12	12	12	12	12	
Restricted Electives (Chosen from Art, Music, Speech, Foreign Language, Philosophy, English 46A-46B, 74A-74B).....	6	6	6	6	6	
Math. A-B—Elementary Algebra and Plane Geometry if not taken in high school.						
Fulfillment of requirement in United States History and Constitution. (See page 40.)						
Completion of lower division requirements for a minor. (See lists on page 41.)						
Electives (lower division) to total at least.....	60	60	60	60	60	
Upper Division						
Science—Total units required.....	Units	Units	Units	Units	Units	
(Required courses are indicated by unit value; acceptable courses by letter "x". Zoology majors must complete at least three courses from those marked "3x" or "5x".)	24	24 ³	24	24	24	
Biol. 101—Marine Biology.....	x	x	x	x	x	
Biol. 103—Micro-Technique	x	x	x	x	3	
Biol. 114—Heredit and Evolution	x	x	x	3x	3	
Biol. 199—Special Problems in Biology.....	x	x	—	—	—	
Bot. 101A-101B—Mycology	—	x	x	—	x	
Bot. 107—Plant Ecology	x	x	x	—	—	
Bot. 110A-110B—Plant Taxonomy	x	x	x	—	—	
Bot. 114—Advanced Ornamental Plants.....	x	x	x	—	—	

¹ If the student has had high school Physics, he should take Chem. 2A-2B; if he has had high school Chemistry, he should take Physics 2A-2B.

² Two years of the same foreign language in high school will be counted in satisfaction of this requirement. Part of this requirement may be satisfied by upper division courses.

³ Biology majors should not take more than 15 units in either Zoology or Botany.

Requirement for the A.B. Degree with Majors in	Life and General Sciences (General Secondary Credential)	Liberal Arts			
		Biol-	Bot-	Zool-	Pre-
		ogy	any	ogy	Medical

(Without a teaching credential)
Secondary Note: Starred courses are recommended, not required.

Upper Division—Continued

	Units	Units	Units	Units	Units
Bot. 199—Special Problems in Botany-----	-	x	x	-	-
Physiol. 101—Human Physiology-----	5	5	-	5x	x
W.M. 136A-136B—Ichthyology-----	x	x	-	x	-
Zool. 104—Field Zoology-----	x	x	-	x	-
Zool. 112—Invertebrate Zoology-----	x	x	-	3x	x
Zool. 114—Comparative Anatomy of Vertebrates-----	x	x	-	3x	3
Zool. 135—Mammalogy-----	-	x	-	x	-
Zool. 160—Embryology-----	x	x	-	3x	3
Zool. 165—Ornithology-----	x	x	-	x	-
Zool. 170—Entomology-----	x	x	x	x	x
Zool. 199—Special Problems-----	-	x	-	x	-
Elective—(Biological Science)-----	-	-	-	-	3
Total Biological Science Required-----	(18)	-	-	-	-
Chem. 105—Quantitative Analysis-----	x	-	-	-	3
Chem. 108—Organic Chemistry Lectures-----	x	-	-	-	3
Chem. 109—Organic Chemistry Laboratory-----	x	-	-	-	3
Educ. 113—Psychological and Social Founda- tions of Education-----	5	-	-	-	-
Educ. 153—Audio-Visual Education-----	2	-	-	-	-
Educ. 175—Course in Secondary Education-----	5	-	-	-	-
Educ. 195S—The Teaching of Science-----	2	-	-	-	-
Completion of upper division requirements for a minor.					
Electives to total-----	120	120	120	120	120
Total upper division required-----	40	40	40	40	40
Total required outside field of Science-----	60	60	60	60	60
Scholarship Requirements:					
In all work taken-----	1.00	1.00	1.00	1.00	1.00
In major and minor-----	1.00	1.00	1.00	1.00	1.00
In each Education course taken-----	1.00	-	-	-	-
For admission to Graduate Division:					
In major-----	1.5	-	-	-	-
In all upper division work taken-----	1.5	-	-	-	-

Graduate Year (General Secondary Credential Only)

Biol. 201A-201B—Advanced Field Biology or Bot. 212 and Upper Division Zoology or Zool. 212 and Upper Division Botany or Bot. 212 and Zool. 212-----	Units 6
Educ. 265—Guidance in Education-----	2
Educ. 275—Seminar in Secondary Education-----	2
Educ. 340A-340B—Directed Teaching in the Secondary School-----	6
Elective in Education (Graduate Course)-----	2
Major or minor or electives (Upper Division or Graduate courses) to total at least	24
Scholarship Requirement (all work in Graduate Year)-----	1.75

<i>Requirements for B.S. Degree with Major in</i>	<i>Wildlife Management</i>	<i>Fish- eries</i>
Lower Division		
	<i>Units</i>	<i>Units</i>
W.M. 2—Natural Resource Conservation.....	3	3
W.M. 5—Wildlife Techniques.....	3	3
W.M. 20—Principles of Wildlife Management.....	3	3
Agric. 1—Agronomy.....	3	—
Engl. 1A-1B—First-Year Reading and Composition.....	6	6
Bot. 1A—General Botany.....	4	4
Bot. 1B—General Botany.....	—	4
Bot. 4—Classification of Flowering Plants.....	3	—
Chem. 1A-1B—General Inorganic Chemistry.....	—	10
Chem. 2A—General Chemistry.....	3	—
Zool. 1A-1B—General Zoology.....	8	8
Zool. 35—Mammalogy.....	3	3
Zool. 65—Ornithology.....	3	—
P.E. Activities (Including P.E. 5).....	2	2
Psych. 1—General Psychology.....	3	3
Econ. 1A-1B—Principles of Economics.....	6	6
Econ. 40—Elementary Statistics.....	3	3
Soc. Sci. Elective (See page 39.).....	3	3
Restricted Electives (Chosen from Art, Music, Foreign Lan- guage, Philosophy, English 46A-46B, or 74A-74B).....	6	6
Completion of lower division requirements for a minor. (See lists on page 39.).....	—	6-12
Math. A.B.—Elementary Algebra and Plane Geometry if not taken in high school.		
Fulfillment of Requirement in United States History and Con- stitution. (See page 40.)		
Upper Division		
W.M.—Upper Division Electives.....	15	—
W.M. 121—Hydrography.....	—	4
W.M. 131—Management of Game Fish.....	—	3
W.M. 132—Commercial Fisheries.....	—	3
W.M. 136A-136B—Ichthyology.....	—	6
Agric. 104—Range and Farm Livestock Management.....	3	—
Bact. 1—General Bacteriology.....	—	5
Biol. 114—Heredity and Evolution.....	3	3
Bot. 110A-110B—Plant Taxonomy.....	6	—
Physiol. 101—Human Physiology.....	5	5
Zool. 170—Entomology.....	3	—
Completion of upper division requirements for minor.....	*	6-12
Electives to total.....	128	128
Total upper division units required.....	40	40
Total required outside of Wildlife field.....	60	60
Scholarship Requirements:		
In all work taken.....	1.00	1.00
In major and minor.....	1.00	1.00
Recommended Electives: Trigonometry, Typing, Anatomy, Journalism, Embryology, Speech, Nutrition, Micro-Tech- nique, Organic Chemistry, Marine Biology, Ornithology, Law Enforcement, Hydrography, Ichthyology, Radio Workshop, and Plant Ecology.		

* The requirements for the Wildlife Management curriculum prescribe an auto-
matic minor in Botany. No courses are necessary in addition to those outlined above.

REQUIREMENTS FOR

<i>Junior High School Major in Biological Sciences</i>		<i>Minor for Candidates for General Secondary Credential</i>	
Lower Division			
Biol. 10A-10B	6 units	Biol. 10A-10B	6 units
Bot. 4	3 units	Chem. 1A	5 units
Zool. 4	3 units	Zoology 4	3 units
		Botany 4	3 units
Upper Division		8-9 units from:	
12 units of Upper Division Bi-		Botany 110A-110B, 107, or	
ology, Botany, or Zoology	12 units	Zoology 104, 113, 165	
Total units required	24 units	Physiology 101	
Additional requirements for the Junior		(Not more than 6 units in	
High School Credential are given in de-		one field)	8-9 units
tail on pages 54-55.		Total units required	25-26 units

Minors for Candidates for General Secondary Credential

<i>Chemistry</i>		<i>Life Sciences</i>	
Lower			
Division		Anat. 66	3 units
Chem. 1A-1B	10 units	Chem. 2A	3 units
Phys. 2A-2B	6 units	Zool. 1A-1B	8 units
Phys. 3A-3B	2 units		
Upper			
Division		Physiol. 101	3-5 units
Chem. 105	3 units	P.E. 153	2 units
Chem. 108-109	6 units	Biol. 114 or Zool. 160	3 units
Total units required	27 units	Total units required	22 units

LIBERAL ARTS MINORS

<i>Biology Minor</i>		<i>Botany Minor</i>	
Lower Division		Botany 1A-1B	
Biology 10A-10B	6 units	or	8 units
		Biology 10A-10B	6 units
		and Botany 4	3 units
Upper Division		Chosen from:	
Chosen from:		Biol. 101	
Biology		Biol. 114, or	
Botany, or		Any U. D. Botany	6 units
Zoology	6 units	Total units required	14-15 units
Total units required	12 units		
The Biology minor is recommended for credential candidates but is not advised for students planning to do graduate work at a university.			

<i>Zoology Minor</i>	<i>Chemistry Minor</i>	<i>Wildlife Management Minor</i>
Lower Division	Chemistry	Six units, including
Zoology 1A-1B	1A-1B	W. M. 2
8 units	10 units	
or		
Biology		
10A-10B		
6 units		
and Zoology 4		
3 units		
Upper Division		
6 units chosen from—	Chemistry 108	3 units
Any U. D. Zoology	Chemistry 105	
Biology 101	or	Six units, including
Biology 114	Chemistry 109	W. M. 120
6 units	3 units	
Total units	Total units	Consult department for
required	required	choice of courses
14-15 units	16 units	Total units
		required
		12 units

DESCRIPTION OF COURSES**BIOLOGICAL SCIENCES**

NOTE: A maximum of 16 semester units will be allowed toward the bachelor's degree in the introductory year courses in Biology, Botany, and Zoology.

AGRICULTURE**Lower Division****3 units****1. Agronomy**

Principles of the culture and distribution of field crops. Seed selection, maintenance of soil fertility, preparation of the seed bed. Important factors in the development of typical cereal and forage crops.

Three one-hour periods per week.

Upper Division**3 units****100. Elementary Soil Science (spring)**

Introduction to the development and characteristics of soils with emphasis on soil conservation.

Three one-hour periods per week.

104. Range and Farm Livestock Management (spring)**3 units**

General principles and practices underlying the management of range and farm livestock.

Three one-hour periods per week.

Prerequisite: Agriculture 1.

ANTHROPOLOGY**1A. Physical Anthropology (spring)****3 units**

An account of the origin and development of human races, the nature of man, and his place in the biological world.

Three one-hour periods per week.

BACTERIOLOGY**Lower Division****5 units****1. General Bacteriology (fall)**

Morphology, physiology, and classifications of bacteria, yeasts and molds. Laboratory training in micro-technique, preparation of culture media, sterilization, inoculation, identification. Bacteriology of air, water, soil, and dairy products. The rudiments of infection and bacterial diseases.

Three one-hour lectures and two three-hour laboratory periods per week.

Upper Division**5 units****101. General Bacteriology**

Upper division students may receive upper division credit for Bacteriology upon the consent of the instructor and the completion of assigned individual problems.

BIOLOGY**Lower Division****3-3 units****10A-10B. General Biology (year)**

An outline of the main facts and principles of plant and animal life. Lectures and demonstrations on the fundamental properties of living things; their functions, structures, classifications, life histories, and relation to human life.

Biology 10A deals primarily with animal life; Biology 10B, with plant life.

Not to be taken concurrently with, or subsequently to either Zoology 1A-1B or Botany 1A-1B.

Two one-hour lecture periods and one three-hour laboratory period per week.

Upper Division

Prerequisite to all upper division Biology courses is either Biology 10A-10B, Botany 1A-1B, or Zoology 1A-1B.

- 101. Marine Biology** (summer session) **3 units**
 A study of the habits, classification, development, and adaptations of marine life, with particular reference to conditions of the Humboldt coast.
 Two one-hour lectures and one three-hour laboratory period or field trip per week.
- 103. Micro-Technique** (fall) **2 or 3 units**
 Preparation of plant and animal tissue for microscopical study, including killing, fixing, staining, and sectioning methods.
 Two or three three-hour periods per week.
- 114. Heredity and Evolution** (fall) **3 units**
 The facts of heredity and Mendel's laws with the application of these laws to plants and animals, including man, are taken up through lectures and assigned reading. Study is made of the various theories of evolution.
 Three one-hour periods per week.
- 190. Elementary School Science** (fall) **2 units**
 (See Education 190S)
 Objectives, methods, and content of the elementary school science program.
 Two one-hour periods per week.
- 199. Special Problems** (fall, spring) **1-3 units**
 Limited to majors in Biological Sciences. Student and problem to be approved by the department. Student carries on independent study and investigation in consultation with instructor assigned to him.

BOTANY

NOTE.—Arcata is an excellent location for all kinds of botanical study. Ocean reefs are located within four miles, a heavy coniferous forest adjoins the campus on the east, and within forty miles horizontal travel one may reach all altitude ranges from sea level to five thousand feet.

Botany courses are fundamental courses to all students in the plant sciences and are basic courses for such occupations as the following: Plant Pathologist, Bacteriologist, Forester, Forest Pathologist, Farm Adviser, High School Science Teacher, Agriculturist, Nurseryman, Landscape Gardener or Architect, Florist, Seedsman, Horticulturist, etc.

The facilities of the department include well equipped laboratories, an herbarium of local flora, and a greenhouse.

Lower Division

- 1A-1B. General Botany** (year) **4-4 units**
 First semester: The fundamentals of the morphology and physiology of flowers, fruit, seeds, seedlings, roots, stems, and leaves.
 Second semester: Lower orders of plants, introduction to the taxonomy of the flowering plants.
 Field trips will be made to points near the College, and a large part of the material used in the laboratory will be collected by the students.
 Two one-hour lectures and two three-hour laboratory periods per week.

- 4. Classification of Flowering Plants** (spring or summer session) **3 units**
 Lectures on the principles of classification; laboratory exercises on plant structure; practice in determinations by means of a manual.
 Two one-hour lectures and one three-hour laboratory periods per week.

Upper Division

Prerequisite to all upper division courses in Botany is Botany 1A-1B, or Biology 10A-10B and consent of instructor.

- 101A-101B. Mycology** (year) **3-3 units**
 First semester: Morphology, taxonomy, and parasitism of representative genera of fungi. Phycomycetes and Ascomycetes. Field work on conspicuous Basidiomycetes not likely to be found in the spring.
 Second semester: Basidiomycetes and fungi imperfecti.
 One lecture and two three-hour laboratory periods per week.

107. Plant Ecology (fall)**3 units**

A general survey of plants and plant associations in relation to environment. Particular attention will be given to the study of successional and habitat factors as determining the local distribution of native plants as well as an adaptation of native plants to this area.

Three one-hour periods per week.

110A-110B. Plant Taxonomy (year)**3-3 units**

First semester: A study of the forest trees and shrubs, with field identification, and a critical study of the characters and habitats of gymnosperms.

Second semester: A study of representative orders of flowering plants; their habits, growth, structure, classification, and geographical distribution.

One one-hour lecture and two three-hour laboratory periods per week.

114. Advanced Ornamental Plants (spring)**3 units**

Study of the more common ornamental trees and shrubs, with principles of landscaping. Greenhouse work in various methods of propagation, potting, culture, etc.

One lecture and two three-hour laboratory periods per week.

PHYSIOLOGY AND ANATOMY**Lower Division****1. Elementary Physiology (spring)****3-5 units**

A general introductory course on human physiology. (May be taken as a lecture course only, for three units.)

Three one-hour lectures and two three-hour laboratory periods per week.

66. Human Anatomy (spring)**3 units**

Demonstration and laboratory study of human dissections, models, and prepared microscopic slides. Designed particularly for nurses and Physical Education majors.

Prerequisite: Zoology 1A.

One one-hour lecture and two three-hour laboratory periods per week.

Upper Division**101. Human Physiology (spring)****3-5 units**

A more advanced course for upper division students.

WILDLIFE MANAGEMENT**Lower Division****2. Natural Resource Conservation (fall)****3 units**

An introductory course designed to orient and acquaint the student with the broad aspects of natural resource conservation, with stress on the interaction of the many agencies concerned. A survey of modern methods applied to conservation, and the history of the wildlife management movement. This course is also organized to provide prospective teachers with the necessary tools for teaching the fundamentals of good conservation habits.

Three one-hour periods per week.

5. Wildlife Techniques (spring)**3 units**

A practical course designed to teach wildlife students the diversified duties required of them which are not included in usual classwork. Fly-tying, preparation of museum specimens, knot-tying, ballistics, evidence collection, dressing and preserving wild meat, breeds of dogs, fishing and trapping techniques.

One lecture and two two-hour laboratory periods per week.

20. Principles of Wildlife Management (fall)**3 units**

An intensive study of wildlife management practices. The theory and application of scientific research as it applies to wild animals. Measurement of game and fish populations and productivity. Economic aspects of game populations.

Three one-hour periods per week.

Prerequisite: W.M. 2.

30. Hatchery Biology

2 units

To acquaint prospective fishery students with the care and propagation of artificially reared trout and salmon. Laboratory periods will be conducted in the college fish hatchery. Disease control, feeds and feeding, water manipulation, egg taking, hatching, counting, and other techniques will be covered.

One lecture and two two-hour laboratory periods per week.

Upper Division

120. Principles of Wildlife Management (fall)

3 units

See W.M. 20.

Students *minoring* in Wildlife may receive upper division credit for this course. Major students take it in the lower division.

Prerequisite: W.M. 2 and upper division status.

131. Management of Game Fish (spring)

3 units

The inland fishes of North America with special reference to trout, salmon, and spiny-rayed fishes. Stream and lake surveys, pollution, farm fish ponds, and hatchery methods. Each student will have the personal responsibility of rearing several thousand trout or salmon in the college hatchery.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: W.M. 20.

132. Commercial Fisheries (fall)

3 units

The marine fisheries. The biology and management of important fish and shellfish. Harvesting methods by trips at sea on commercial vessels.

Three one-hour periods per week. Field trips by arrangement.

Prerequisite: W.M. 20.

136A-136B. Ichthyology (year)

3-3 units

The classification, distribution, and ecology of fishes; special attention to the orders and families of North American fishes of economic and recreational importance.

Two lectures and one three-hour laboratory period per week.

Prerequisite: Zoology 1A-1B.

141. Hydrography (fall)

4 units

The study of the relationships between aquatic organisms and their environment. Deals with physical and biological phenomena of fresh and salt water. Research trips in the adjoining streams, bays, lagoons, and ocean are an integral part of the course.

Two lectures, and two three-hour laboratory periods per week.

150. Management of Big Game (fall)

3 units

Species of big-game mammals, habits, distribution, management, values, laws. Three-day field trip to Siskiyou mountains, Tule Lake, Shasta Dam, Yountville game farm.

Two one-hour lectures; one three-hour laboratory period per week.

Prerequisite: Zoology 35 and W.M. 20.

152. Management of Furbearers (fall)

3 units

Species of furbearers; their life histories and management. Emphasis on wild species with field trips to local fur farms.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisite: W.M. 20 and Zool. 35.

171A. Management of Waterfowl (fall)

3 units

Study of waterfowl and allied species, their life histories and management in North America.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisite: Zoology 65 and W.M. 20.

171B. Management of Upland Game Birds (spring)

3 units

Intensive study of upland game birds, their life histories and management in the United States. Liberation, population estimates and rearing. Each student will have a personal responsibility in rearing about 800 pheasants a season in the college rearing pens.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisite: Zoology 65 and W.M. 20.

199. Special Problems in Wildlife Management**1-3 units**

Individual study on selected problems in the Wildlife field for upper division students who have demonstrated outstanding ability and interest.

NOTE: For Game Law Enforcement, see Sociology 8, Sociology 108.

ZOOLOGY**Lower Division****1A-1B. General Zoology (year)****4-4 units**

A year course dealing with principles of animal biology together with a review of representative animal forms.

Two one-hour lectures and two three-hour laboratory periods per week.

4. Animal Classification (fall or summer session)**3 units**

Elementary classification, natural history and ecology of the common vertebrates and invertebrates; life histories and methods of conservation. Emphasis is on the animal life of the Humboldt Bay region. Designed for teaching credential candidates who do not elect Zoology 1A.

Two one-hour lectures and one three-hour laboratory period per week.

35. Mammalogy (fall)**3 units**

Study of the classification, anatomy, distribution, and life histories of mammals.

Two one-hour lectures and one three-hour laboratory period per week.

65. Ornithology (spring or summer session)**3 units**

A study of birds, which includes classification, life histories, migration, habits, and special modifications. Identification of birds in field and laboratory.

Two one-hour lectures and one three-hour laboratory period per week.

Upper Division

Prerequisite to all upper division courses is Zoology 1A-1B, or Biology 10A-10B and consent of instructor.

104. Field Zoology (fall or summer session)**3 units**

Collection, identification, and preservation of common invertebrates and vertebrates of Humboldt Bay region. Discussion of ecological relationships. Each student works on an individual problem.

Two one-hour lectures and one three-hour laboratory period per week.

112. Invertebrate Zoology (fall)**3 units**

A study of animals without backbones, with special reference to the natural history and classification of the animals of the seashore.

Two one-hour lectures and one three-hour laboratory period per week.

114. Comparative Anatomy of Vertebrates**3 units**

Two one-hour lectures and one three-hour laboratory period per week.

135. Mammalogy (fall)**3 units**

See Zoology 35. Students receiving upper division credit must complete an additional problem in mammalogy.

160. Embryology (spring)**3 units**

The maturation of egg and sperm; fertilization; and the early development of the amphibian, chick, and mammal.

One one-hour lecture and two three-hour laboratory and demonstration periods per week.

165. Ornithology (spring or summer session)**3 units**

See Zoology 65. Students receiving upper division credit must complete an additional problem in ornithology.

170. Entomology (spring)**3 units**

The classification, life histories, distribution, and control of insects, with special application to agriculture and game management.

Two lectures and one three-hour laboratory period.

199. Special Problems

1-3 units

Individual work in zoology for upper division students who show special aptitude. Conference, reading, and research.

Graduate Division

Biology 201A-201B. Advanced Field Biology

3-3 units

Original study on special topics in the field and laboratory. Research on life histories, distributional problems, and classification. (Special attention paid to the life of the area between Mad River and the Trinity River.)

Botany 212. Marine Algae

3 units

Taxonomy, life histories, and relationships of the marine algae of the Pacific Coast.

Zoology 212. Advanced Marine Biology

3 units

An advanced course dealing with problems in marine ecology, classification, and life histories.

PHYSICAL SCIENCES

5A-5B. Fundamentals of the Physical Sciences (year)

3-3 units

A general survey of the physical sciences designed primarily for credential candidates, but open to others who desire six units of lower division credit in physical science.

Two one-and-one-half-hour lectures or demonstration periods per week.

CHEMISTRY

Lower Division

1A-1B. General Chemistry (year)

5-5 units

The fundamental concepts of chemistry, with emphasis on the relation of chemical behavior to atomic structure.

Prerequisites: High school chemistry or Physics, and at least two years of high school mathematics.

Three one-hour lecture and two three-hour laboratory periods per week.

2A-2B. General Chemistry (year)

3-3 units

An elementary course in general chemistry, designed for majors in nursing, physical education, and home economics. Emphasis on chemical principles rather than mathematical applications.

Two lectures and one three-hour laboratory period per week.

Upper Division

105. Quantitative Analysis (fall)

3 units

Principles and methods of quantitative analysis. Study of methods used in industrial, agricultural and medical work.

Two lectures and one three-hour laboratory period per week.

Prerequisite: Chemistry 1B with grade of "C" or higher.

108. Organic Chemistry Lectures (spring and summer session)

3 units

A survey of the carbon compounds.

Prerequisite: Chemistry 1A or Chemistry 2A-2B.

Three one-hour lecture periods per week.

109. Organic Chemistry Laboratory (spring)

3 units

Study of the carbon compounds in the laboratory. Taken concurrently with or following Chemistry 108.

Three three-hour laboratory periods per week.

GEOLOGY

- 1A. General Geology (fall) 3 units**
 A survey of the nature and structure of the material composing the earth and of the various processes which have shaped or are still shaping the earth.
 Three one-hour periods per week and field trips.

PHYSICS

- 2A-2B. General Physics Lectures (year) 3-3 units**
 A general survey of physics for non-engineering students. Less emphasis is placed on the quantitative aspect of the subject and the mathematical treatment is minimized.

Three one-hour lectures, discussion, and demonstration periods per week.
 Prerequisite: Mathematics C. (May be taken concurrently.)

- 3A-3B. General Physics Laboratory (year) 1-1 unit**
 Experimental work in mechanics, properties of matter, heat, sound, light, magnetism, and electricity. To accompany Physics 2A-2B.
 One three-hour laboratory period per week.

- 4A. General Physics (spring) 4 units**
 Mechanics and properties of matter.
 Three lectures and one three-hour laboratory period per week.
 Prerequisite: Mathematics 3A-3B, or its equivalent.
 Mathematics 3B may be taken concurrently.

- 4B. General Physics (fall) 4 units**
 Magnetism, electricity, and modern physics.
 Prerequisite: Physics 4A. Mathematics 4A may be taken concurrently.
 Three lectures and one three-hour laboratory period per week.

- 4C. General Physics (spring) 4 units**
 Wave motion, heat, sound, and light.
 Prerequisite: Physics 4A. Mathematics 4B may be taken concurrently.
 Three lectures and one three-hour laboratory period per week.

- 15. Elementary Physics of Sound and Color (fall) 3 units**
 Science of sound, musical instruments, and acoustics, theory of color. For art and music majors.
 Three one-hour periods per week.

- 20. Elementary Photography 2 units**
 See Art 50.

- 21. Advanced Photography 2 units**
 See Art 51.

- 30. Elementary Meteorology (fall or summer session) 3 units**
 Absorption and distribution of solar energy; structure and dynamics of the atmosphere; and methods of recording and predicting the weather. Designed especially for students in aeronautics.

- 51. Elementary Electronics (spring) 2 or 3 units**
 Non-radio applications of electronic tubes; theory and operation.
 One lecture and two three-hour laboratory periods per week.

ENGINEERING

- 1A-1B. Plane Surveying (year) 3-3 units**
 Principles, field practice, calculation, and mapping.
 Prerequisite: Plane trigonometry and Industrial Education 7A or its equivalent.
 Two one-hour lecture and one three-hour laboratory periods per week.

- 8. Materials of Engineering Construction 2 units**
 Structural properties and adaptability of various materials.
 Prerequisite: Sophomore standing in Engineering.

- 22. Engineering Drawing (spring) 2 units**
 Fundamentals of engineering drawing. Covers orthographic projection, geometrical construction, pictorial drawing and sketching, sectioning, fasteners, and simple working drawings.
 Prerequisite: Ind. Educ. 7A (or a year of high school mechanical drawing) and Mathematics C.
 Six hours per week, lecture and drafting.
- 23. Descriptive Geometry (fall) 2 units**
 Principles of descriptive geometry and the solution of three-dimensional problems. Applications in various branches of engineering.
 Prerequisite: Engineering 22, Math 3A.
 Two one-hour lectures and two two-hour drafting periods per week.
- 24. Advanced Engineering Drawing (spring) 2 units**
 Freehand sketching in orthographic and pictorial projections; working drawings; structural detailing; electrical and piping layouts; and introduction to graphic integration and differentiation.
 Prerequisite: Engineering 23.
 Six hours per week, lecture and drafting.
- 35. Engineering Statics (spring) 3 units**
 Forces and force systems, equilibrium conditions, trusses and frames, friction, first and second moments of areas, moments of inertia of masses.
 Prerequisite: Physics 4A and Mathematics 4A.
 Three one-hour periods per week.
- 40. Engineering Metallurgy (fall) 3 units**
 Structure of metals and alloys. Properties of metals and alloys as related to their structure and composition.
 Prerequisite: Physics 4A.
 Two lectures and one three-hour laboratory period per week.
- 41. Manufacturing Processes (fall) 4 units**
 Nonmetallic materials used in manufacturing and their processing, plastics, and wood products; casting and forming processes. Use of precision gauges and standard machine tools. Welding. Decorative and protective coatings.
 Prerequisite: Engineering 23 and 40.
 Two lectures and two three-hour laboratory periods per week.

MATHEMATICS

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor in Mathematics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division Math. 3A-3B_____ 6 units Electives _____ 6 units	Lower Division Math. 3A-3B_____ 6 units	Lower Division Math. 3A-3B_____ 6 units
Upper Division Math. 101A-101B 6 units Math. 104A-104B 6 units Total units required ---24 units	Upper Division Math. 104A-104B 6 units Total units required ---12 units	Upper Division Math. 101A-101B 6 units Math. 104A-104B 6 units Total units required ---18 units

NOTE: Other requirements for the Junior High School Credential are given on pages 54-55.

DESCRIPTION OF COURSES**Lower Division**

If the student has not had Elementary Algebra and Plane Geometry in high school, it is necessary that he pass courses in these subjects if he is a candidate for the A.B. Degree. Subcollegiate, noncredit courses in Mathematics A (Elementary Algebra), and Mathematics B (Plane Geometry) will be offered whenever there is sufficient demand.

C. Trigonometry (fall) 3 units

Plane trigonometry and spherical right triangles.

Prerequisite: Plane geometry and one and one-half years of high school algebra or Mathematics D.

Three one-hour periods per week.

D. Intermediate Algebra (fall) 3 units

Quadratic equations; exponents and radicals; theory of equations; elementary determinants; progressions; and the binomial theorem.

Prerequisite: One year of high school algebra or general mathematics.

Three one-hour periods per week.

†E. Solid Geometry (spring) 2 units

Prerequisite: Elementary algebra and plane geometry.

Two one-hour periods per week.

1. College Algebra (spring) 3 units

Theory of equations; determinants; equations of third and fourth degrees.

Prerequisite: Mathematics 3A.

Three one-hour periods per week.

2. Mathematics of Finance (spring) 3 units

Theories of interest and annuities applied to amortization, valuation, investment, depreciation, and insurance.

Prerequisite: Two years of high school algebra or Mathematics D.

Three one-hour periods per week.

3A. Analytic Geometry and Calculus (fall) 3 units

Elements of analytic geometry and differential calculus. Also a survey of the principles of integral calculus, with applications to mechanics.

Prerequisite: Mathematics C.

Three one-hour periods per week.

3B. Analytic Geometry and Calculus (spring) 3 units

A continuation of differential and integral calculus unified with analytic geometry. This course also includes an introduction to the calculus of vectors, and polar coordinates.

Prerequisite: Mathematics 3A.

Three one-hour periods per week.

50. Slide Rule Computation (spring) 1 unit

Theory and practice of the slide rule, from simple multiplication and division through trigonometric calculations and exponential equations.

One one-hour period per week.

Upper Division**101A. Elementary Mathematics for Advanced Students (fall) 3 units**

Selected topics in algebra and geometry with particular emphasis upon historical development. This course is designed for students who are preparing to teach mathematics in secondary schools.

Prerequisite: Mathematics 104A-104B, 1.

Three one-hour periods per week.

† Given if sufficient demand.

101B. Elementary Mathematics for Advanced Students (spring) 3 units

This course is a continuation of course 101A.

Prerequisite: Mathematics 104A-104B, 1. 101A is not prerequisite to 101B.

Three one-hour periods per week.

104A-104B. Integral Calculus and Solid Analytics (year) 3-3 units

First semester continues development of integration and series.

Second semester continues partial differentiation, quadric surfaces and multiple integration.

Prerequisite: Mathematics 3A-3B.

Three one-hour periods per week.

110A-110B. Advanced Engineering Mathematics (year) 2-2 units

This course is primarily for engineering students who expect to get a degree in engineering. A more intensive study of integration and physical applications, conjugate functions, hyperbolic functions, Fourier series, differential equations.

Prerequisite: Mathematics 4A-4B.

Two one-hour periods per week.

The Division of Social Sciences

Business
Economics
Geography
History

Philosophy
Political Science
Psychology
Sociology

OBJECTIVES

The objectives of the Division of Social Sciences are to make a contribution to the general education of all students; more specifically, to provide:

1. Courses intended to develop understanding and appreciation of the interrelated political, social and economic institutions and problems of the day for the intelligent exercise of the duties of citizenship. This objective is especially important for those training to become teachers.
2. Curricula leading to:
 - a. General Secondary Credential, enabling the holder to teach in the secondary schools of the State. This program involves a year of graduate work. Majors are available in the Social Sciences and Business Education.
 - b. The A.B. Degree with differentiated majors in
 - (1) Social Sciences for students desiring a general cultural education with emphasis upon the social studies.
 - (2) Social Service, for those interested in the field of Social Welfare.
 - (3) Economics, for those interested in specialization in this field in preparation for graduate study or employment in industry or government service.
 - (4) History, for students interested in graduate work in this specialized field.
 - (5) Business Administration for those seeking to obtain managerial positions in business or government positions.
 - (6) Secretarial Science for the training of executive secretaries.
3. One- and two-year terminal, vocational courses in Stenographic and Secretarial Training.

SOCIAL SCIENCES

*Requirements for the A.B. Degree and a Fifth Year Leading to the General
Secondary Credential With a Major in Social Sciences*

Lower Division		
Social Sciences:		<i>Units</i>
Econ. 1A-1B—Principles of Economics.....		6
Hist. 4A-4B—History of Western Civilization.....		6
Pol. Sci. 1A-1B—Introduction to Government <i>or</i>		
Soc. 1A-1B—Introduction to Sociology.....		6
Engl. 1A-1B—First-Year Reading and Composition.....		6
Nat. Sci.—(See page 39.).....		12
Or. II—Orientation II.....		1
P. E. Activities—(Including P. E. 5 or 15).....		2
Psych. 1—General Psychology.....		3
Restricted Electives (Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B or 74A-74B).....		6
Math. A-B—Elementary Algebra and Plane Geometry if not taken in high school.		
Fulfillment of requirement in United States History and Constitution. (See page 40.)		
Completion of lower division requirements for a secondary teaching minor. (See lists on page 41.)		
Electives (lower division) to total.....		60

*Requirements for the A.B. Degree and a Fifth Year Leading to the General
Secondary Credential With a Major in Social Sciences*

Upper Division

	<i>Units</i>
U. D. Economics—Electives	6 ¹
U. D. History—Electives	6 ¹
U. D. Economics or History	12

NOTE: If the student elects history as his field of emphasis, his program must include the following:

Hist. 197—Aids to Historical Research or	
Hist. 198—History and Historians	1 unit
Hist. 199A or 199B—Special Studies in History	2 units

	<i>Units</i>
Educ. 113—Psychological and Social Foundations of Education	5
Educ. 153—Audio-Visual Education	2
Educ. 175—Core Course in Secondary Education	5
Educ. 195SS—The Teaching of Social Studies	2
Completion of upper division requirements for a minor.	
Electives to total	120
Total upper division required	40
Total required outside field of Social Sciences	60

Scholarship requirements:

In all work taken	1.00
In major and minor	1.00
In each Education course taken	1.00

For admission to the Graduate Division:

In major	1.5
In all upper division work taken	1.5

Graduate Year

Social Sciences:

A year course in either Economics or History (Graduate course)	6
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Elective in Education (Graduate course)	2
Major or minor or electives (Upper Division or Graduate courses) to total	
at least	24
Scholarship Requirement (all work in Graduate Year)	1.75

¹ Students may substitute for either the history or the economics *but not for both* six units chosen from either upper division Sociology or Political Science.

Requirements for the A.B. Degree with Majors in	Liberal Arts			
	Social Sciences	Eco- nomics	History	Social Service
	(Without a teaching credential)			
Note: Starred courses are recom- mended, not required.				
Lower Division				
Social Sciences:	Units	Units	Units	Units
B. A. 14A-14B—Principles of Accounting---	—	6	—	—
Econ. 1A-1B—Principles of Economics----	6	6	6*	6
Econ. 40—Elementary Statistics -----	—	3	—	3
Geog. 5—Economic Geography -----	—	3	—	—
Hist. 4A-4B—History of Western Civilization -----	6	6 or	6	—
Hist. 8A-8B—History of the Americas----	—	(6) or	6	—
Pol. Sci. 1A-1B—Introduction to Government-----	6 or	(6) or	—	—
Soc. 1A-1B—Introduction to Sociology----	(6)	(6)	—	6
Total Social Sciences required-----	(18)	(24)	(12)	(15)
Engl. 1A-1B—First-Year Reading and Composition -----	6	6	6	6
Foreign Language -----	—	—	10 ¹	—
H. H. 1—Personal Hygiene -----	—	—	—	2
H. Ec. 20—General Nutrition -----	—	—	—	2
Math. D—Intermediate Algebra-----	—	3 ²	—	3 ²
Nat. Sci.—(See page 39.)-----	12	12	12	12
P.E. Activities (Including P.E. 5 or 15)-----	2	2	2	2
Psych. 1—General Psychology -----	3	3	3	3
Restricted Electives (Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B or 74A-74B)-----	6	6	6	6
Math. A-B—Elementary Algebra or Plane Geometry if not taken in high school.				
Fulfillment of requirement in United States History and Constitution. (See page 40.)				
Completion of lower division requirements for a minor. (See page 40.)				
Electives (lower division) to total-----	60	60	60	60

¹ See page 42. History majors are advised to complete at least six additional units in foreign language or the equivalent.

² Desirable as prerequisite to Elementary Statistics. Consult the instructor as to adequacy of background in Mathematics.

Requirements for the A.B. Degree with Majors in	Liberal Arts			
	Social Sciences	Eco- nomics	History	Social Service
	(Without a teaching credential) Note: Starred courses are recom- mended, not required.			
Upper Division				
Social Sciences:	Units	Units	Units	Units
Econ. 113—Economic and Social History of the United States-----	-	3*	-	-
Econ. 135—Principles of Money and Banking -----	-	3	-	-
Econ. 150—Labor Economics -----	-	3	-	3
Econ. 188—World Population and Resource or	-	-	-	-
Econ. 190A—Principles of International Commerce -----	-	3*	-	-
U. D. Econ.—Electives -----	6	12	-	-
U. D. Econ. or B. A.—(Approved courses)-----	-	6	-	-
Hist. 197—Aids to Historical Research or	-	-	-	-
Hist. 198—History and Historians-----	-	-	1	-
Hist. 199A of 199B—Special Studies in History -----	-	-	2	-
U. D. Hist.—Electives -----	6	-	12 ³	-
Soc. 102—Methods in Social Work-----	-	-	-	3
Soc. 110A-110B—The Social Services-----	-	-	-	6
U. D. Soc.—Electives -----	-	-	-	15
U. D. Social Science—Electives -----	12	-	9	-
Total Social Science Required-----	(24)	(24)	(24)	(27)
H. H. 160—Public Health -----	-	-	-	3
H. Ec. 150—Child Care and Training-----	-	-	-	2
Psych. 105—Social Psychology -----	-	-	-	3*
Completion of upper division requirements for a minor.				
Electives to total-----	120	120	120	120
Total upper division required-----	40	40	40	40
Total required outside field of Social Sciences -----	60	60	60	60
Scholarship Requirements:				
In all work taken-----	1.00	1.00	1.00	1.00
In major and minor-----	1.00	1.00	1.00	1.00
³ Must include a survey course of broad scope in each of two fields, European and American history.				

^a Must include a survey course of broad scope in each of two fields, European and American history.

BUSINESS ADMINISTRATION

Candidates for the General Secondary Credential with a major in Business Education must complete a five-year program, and must verify at least 1000 hours (approximately six months) of practical experience that is related to the student's field of specialization. Candidates for this credential must complete fifteen units in at least one sub-field, but it is highly desirable to extend professional preparation to two or more sub-fields.

Majors in Business Administration complete an automatic minor in Economics. No other minor is necessary. The upper division program in Business Administration is flexible enough to permit some degree of specialization for those students interested in emphasizing any one of the following fields of concentration:

Accounting: At least nine units chosen from B. A. 106A, 160B, 161, 162, 163, 169.

Labor-Management Relations: At least nine units chosen from Econ. 106, 153, 155, 185 or other courses approved by major adviser.

Retail Merchandising: At least nine units chosen from B. A. 125, 126, 134.

General Business: Nine units in the field of the student's special interest, approved by major adviser.

All students enrolled in the secretarial and stenographic curricula must take a spelling test. Those who fail to pass this test will be required to enroll in the class in B. A. 4, Word Study.

The four-year program in Secretarial Science is designed to equip students for positions as executive secretaries or office supervisors. Practical experience will be provided through the cooperation of business and professional employers. During the school year, students will be given opportunity for practical experience in actual employment situations under the supervision of the Business Administration staff.

Requirements for the A.B. Degree With Majors in	Business Education					Business Adminis- tration	Secre- tarial Science
	Required of all	Sub-Fields					
Bookkeeping and Accounting		Secretarial	General Business	Merchandising	(Without a teaching credential)		
NOTE: Candidates for the General Secondary Credential in Business Education follow the program outlined for the Major in Business Education, and complete in addition a fifth year of graduate study.							
Lower Division							
B.A. 1A-1B-1C—Shorthand I, II, III-----	-	-	6	-	-	-	9
B.A. 2A-2B-2C—Typewriting I, II, III-----	-	-	4	4	-	-	6
B.A. 5A-5B—Business Machines-----	-	2	2	-	-	-	2
B.A. 14A-14B—Principles of Accounting-----	6	-	-	-	-	-	6
B.A. 12—Bookkeeping-----	-	3	3	3	-	-	-
B.A. 15—Mathematics of Finance-----	-	3	-	-	-	3	-
B.A. 18—Business Law-----	3	-	-	-	-	3	3
B.A. 21—Business Mathematics-----	-	-	-	3	-	-	3
B.A. 41—Business English-----	-	-	-	-	-	-	3
B.A. 42—Penmanship-----	-	1	1	1	-	-	1
B.A. 50—Salesmanship-----	-	-	-	2	2	(2) ¹	-
Econ. 1A-1B—Principles of Economics-----	6	-	-	-	-	6	6
Econ. 40—Elementary Statistics-----	-	3	-	-	-	3	-
Engl. 1A-1B—First-Year Reading and Composition-----	6	-	-	-	-	6	6
Geog. 5—Economic Geography-----	3	-	-	-	-	3	3
Math. D—Intermediate Algebra-----	-	3 ²	-	-	-	-	3 ²
Nat. Sci.—(See page 39)-----	12	-	-	-	-	12	12
Or. II—Orientation II-----	1	-	-	-	-	-	-
P.E. Activities (Including P.E. 5 or 15)-----	2	-	-	-	-	2	2
Psych. 1—General Psychology-----	3	-	-	-	-	3	3
Soc. Sci. Chosen from:							
Hist. 4A-4B—History of Western Civilization	}	-	-	-	-	6	-
Hist. 8A-8B—History of the Americas							
Pol. Sci. 1A-1B—Introduction to Government							
Soc. 1A-1B—Introduction to Sociology							
Restricted Electives (Chosen from Art, Music, Foreign Language, Philosophy, Speech, English 46A-46B or 74A-74B)-----							
	6	-	-	-	-	6	6 ³
Math. A-B—Elementary Algebra or Plane Geometry if not taken in high school.							
Fulfillment of requirement in United States History and Constitution. (See page 40.)							
Completion of lower division requirements for a minor. (See lists on page 41.)							

Fulfillment of requirement in United States History and Constitution. (See page 40.)
Completion of lower division requirements for a minor. (See lists on page 41.)

¹ Recommended for Business Administration majors who elect the Retail Merchandising option.

² Desirable as prerequisite to Elementary Statistics. Consult the instructor of this course as to the adequacy of background in Mathematics.

³ Secretarial Science majors are required to take Speech 1 and 2 or 3.

		Business Education					Business Adminis- tration	Secre- tarial Science
Requirements for the A.B. Degree With Majors in	Required of all	Sub-Fields						
		Bookkeeping and Accounting	Secretarial	General Business	Merchandising			
Upper Division		Units		Units	Units			
B.A. 101—Business Correspondence	-	-	3	-	-	-	3	
B.A. 105—Dictation and Transcription	-	-	2	-	-	-	2	
B.A. 110A-110B—Secretarial Practice	-	-	6	-	-	-	-	
B.A. 111—Office Procedures	-	-	1	-	-	-	2	
B.A. 112—Secretarial Training	-	-	3	-	-	-	3	
B.A. 113—Office Practice	-	-	3	3	-	-	3	
B.A. 118—Business Law II	3	-	-	-	-	3	3	
B.A. 120—Business Organization	3	-	-	-	-	3	3	
B.A. 125—Retail Advertising	-	-	-	-	3	-	3	
B.A. 126—Retail Store Management	-	-	-	-	3	-	-	
B.A. 130—Business Finance	-	-	-	-	-	3 ¹	-	
B.A. 134—Marketing	3	-	-	-	-	3	3 or (3)	
Econ. 105—Consumer Economics	-	-	-	-	-	-	-	
U. D. Accounting courses	-	9	-	-	-	-	-	
Econ. 103—Business Cycles	-	-	-	-	-	3	-	
Econ. 106—Social-Economic Reform Movements	3	-	-	-	-	-	-	
Econ. 135—Principles of Money and Banking	-	-	-	-	-	3	-	
Econ. 150—Labor Economics	-	-	-	-	-	3	-	
U. D. Econ.—Elective	-	-	-	-	-	3	-	
U. D. B.A. or Econ.—Electives chosen in consultation with the major adviser	-	3	-	9	6	9	-	
Educ. 113—Psychological and Social Foundations of Education	5	-	-	-	-	-	-	
Educ. 153—Audio-Visual Education	2	-	-	-	-	-	-	
Educ. 175—Core Course in Secondary Education	5	-	-	-	-	-	-	
Educ. 195B—The Teaching of Business Education	2	-	-	-	-	-	-	
Completion of upper division requirements for a minor.								
Electives to total	120					120	120	
Total upper division required	40					40	40	
Total required outside major field	60					60	60	
Scholarship Requirements:								
In all work taken	1.00					1.00	1.00	
In major and minor	1.00					1.00	1.00	
In each Education course taken	1.00					-	-	
For admission to the Graduate Division:								
In major	1.5							
In all upper division work taken	1.5							

¹ Students who have completed Business Administration 160A-160B with a grade of "C" or better will be excused from this course requirement.

Graduate Year (General Secondary Credential Only)

	<i>Units</i>
B.A. 252—Philosophy of Business Education.....	3
Educ. 265—Guidance in Education.....	2
Educ. 275—Seminar in Secondary Education.....	2
Educ. 340A-340B—Directed Teaching in the Secondary School.....	6
Elective in Education (Graduate course).....	2
Major or minor or electives (Upper Division or Graduate course) to total at least	24
Scholarship Requirement (all work in Graduate year).....	1.75

TERMINAL COURSES IN SECRETARIAL TRAINING

The college offers one- and two-year programs in stenographic and secretarial training. Students electing the two-year program must complete a minimum of 60 semester units of college work and must maintain a scholarship average of "C" in order to receive the two-year diploma.

Students taking the one-year course must complete a minimum of 30 semester units and maintain a scholarship average of "C" in order to qualify for the one-year diploma.

Training includes practice in operating the mimeograph, dictaphone, and other office machines in common use.

Attention is called to the fact that the college offers a four-year program in secretarial science which is recommended for those students who wish to obtain a more thorough training for positions as executive secretaries, office supervisors, and other positions calling for greater responsibility or specialized training. (See page 128.)

The placement of graduates is a function assumed by the Division of Social Sciences. Every effort is made to secure positions for current and former graduates. In recent years, the demand has far exceeded the supply.

<i>Suggested program for</i>	<i>Secretarial Training (Two-Year)</i>	<i>Stenographic Training (One-Year)</i>
Freshman Year	<i>Units</i>	<i>Units</i>
B.A. 1A—Shorthand I	3	—
B.A. 1B—Shorthand II	3	3
B.A. 1C—Shorthand III	—	3
B.A. 2A—Typewriting I	2	—
B.A. 2B—Typewriting II	2	2
B.A. 2C—Typewriting III	—	2
B.A. 4—Word Study ¹	(2)	(2)
B.A. 5A-5B—Business Machines	2	2
B.A. 12—Bookkeeping	—	3 or
B.A. 14A—Principles of Accounting	—	(3)
B.A. 21—Business Mathematics	—	3
B.A. 41—Business English	3	3
B.A. 42—Penmanship	1	—
Engl. 1A—First-Year Reading and Composition	3	3
P.E. Activities (Including P.E. 5 or 15)	1	1
Speech 1—Fundamentals of Speech	3	—
Electives to total	30	30
Sophomore Year		
B.A. 1C—Shorthand III	3	—
B.A. 2C—Typewriting III	2	—
B.A. 14A—Principles of Accounting	3	—
B.A. 18—Business Law	3	—
B.A. 50—Salesmanship	2	—
B.A. 101—Business Correspondence	3	—
B.A. 112—Secretarial Training	3	—
Econ. 1A—Principles of Economics	3	—
P.E. Activities	1	—
Psych. 1—General Psychology	3	—
Electives to total at least	30	—

¹ Required of students who fail to pass the entrance test in spelling.

REQUIREMENTS FOR
Junior High School Majors

<i>Economics</i>		
Lower Division	Economics 1A-1B -----	6 units
	History 4A-4B or	
	Political Science 1A-1B -----	6 units
Upper Division	U.D. Economics -----	12 units
Total units required -----		24 units
<i>History</i>		
Lower Division	Economics 1A-1B or	
	Political Science 1A-1B -----	6 units
	History 4A-4B -----	6 units
Upper Division	U.D. History -----	12 units
Total units required -----		24 units
<i>Social Sciences</i>		
Lower Division	Economics 1A-1B or	
	History 4A-4B -----	6 units
	Political Science 1A-1B or	
	Sociology 1A-1B -----	6 units
Upper Division	U.D. Social Science -----	12 units
Total units required -----		24 units

Additional requirements for the Junior High School Credential are given on pages 54-55.

Minors in the Social Science Fields

	<i>Economics</i>	<i>History</i>	<i>Political Science</i>	<i>Psychology</i>	<i>Sociology</i>
Lower Division -----	1A-1B	4A-4B	1A-1B	1-2	1A-1B
Upper Division -----	6 units	6 units	6 units	6 units	6 units
Total units required ---	12 units	12 units	12 units	12 units	12 units
	<i>Business Administration</i>	<i>Accounting</i>	<i>Secretarial Training</i>		
Lower Division -----	14A-14B	14A-14B	1A-1B 2A-2B		
Upper Division -----	6 units	160A and 3 units from: 160B, 161, 169	112 and 3 units from 110, 111, 113		
Total units required ---	12 units	12 units	16 units		

Minors for Candidates for the General Secondary Credential

<i>Social Sciences</i>	<i>Economics</i>	<i>Sociology</i>
Lower Division	Lower Division	Lower Division
Hist. 4A-4B -- 6 units	Econ. 1A-1B -- 6 units	Soc. 1A-1B --- 6 units
Econ. 1A-1B -- 6 units	Hist. 4A-4B or	Hist. 4A-4B or
	Pol. Sci. 1A-1B 6 units	Econ. 1A-1B -- 6 units
Upper Division	Upper Division	Upper Division
History ----- 6 units	Economics ----- 9 units	Sociology ----- 9 units
Economics ----- 6 units		
Total units required ----- 24 units	Total units required ----- 21 units	Total units required ----- 21 units

Minors for Candidates for the General Secondary Credential

<i>History</i>	<i>Shorthand and Typing</i>	<i>Bookkeeping and Commercial Law</i>
Lower Division	Lower Division	Lower Division
Hist. 4A-4B.....6 units	B.A. 1A-B-C -- 9 units	B.A. 14A-14B --6 units
Econ. 1A-1B <i>or</i>	B.A. 2A-B-C -- 6 units	B.A. 18 -----3 units
Soc. 1A-1B.....6 units		B.A. 2A-2B ---4 units
Upper Division	Upper Division	Upper Division
History -----9 units	B.A. 101 ----- 3 units	B.A. 118 -----3 units
	B.A. 105 ----- 2 units	B.A. 160A-160B-6 units
	B.A. 112 ----- 3 units	Elective in B.A. or Economics_3 units
Total units	Total units	Total units
required -----21 units	required -----23 units	required -----25 units

DESCRIPTION OF COURSES

HISTORY

Lower Division

4A-4B. History of Western Civilization (year) 3-3 units

A rapid survey of the political, economic, social, religious, and cultural development of western civilization from ancient times to the present.

First semester: From ancient times to the seventeenth century.

Second semester: From seventeenth century to the present.

History 4A is not necessarily prerequisite to 4B, although this sequence is recommended.

Required of all History and Social Science majors and minors.

Three one-hour periods per week.

8A-8B. History of the Americas (year) 3-3 units

A study of the development of the Western Hemisphere from discovery to the present. The first semester places emphasis upon exploration and settlement, colonial growth, imperial rivalries, and includes the achievement of independence. The second semester emphasizes the growth and development of the American nations and people in the last century and a quarter.

History 8B meets the requirements in United States history established by the Legislature of California.

Three one-hour periods per week.

70. History of the United States (fall) 2 units

A rapid survey from colonial times to the present. Development of the major political and social institutions of the American people; economic development; sectionalism; expansion. Emphasizes main currents.

This course meets the requirements in United States history established by the Legislature of California.

Two one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in History: History 4A-4B, and History 70 or 8A-8B or consent of the instructor.

121A-121B. The Middle Ages (year) 3-3 units

121A is a survey of the early Middle Ages. It covers the main events of European history from the fall of the Roman Empire to about 1150 A. D.

121B is a survey of the later Middle Ages. It covers the main events of European history from 1150 to 1450 with emphasis upon social, cultural, religious, and economic foundations of Western Europe.

Three one-hour periods per week.

124. **World Organization for Peace** 3 units
A general survey of the historical background of the institutions and agencies of international government with major stress on international organization for peace.
Three one-hour periods per week.
142. **Europe in the Sixteenth, Seventeenth, and Eighteenth Centuries** 3 units
The political, economic, social, and intellectual history of Europe from the Reformation to the fall of Napoleon.
Three one-hour periods per week.
143. **Europe in the Nineteenth Century** 3 units
European society, politics, and international relations from the Congress of Vienna through the unification of Italy and Germany.
Three one-hour periods per week.
144. **Europe Since 1870** 3 units
The history of Europe with special stress on the causes of the world wars and wars themselves.
Three one-hour periods per week.
148. **Recent World History** 3 units
Political, economic, and social developments leading to World Wars I and II. Includes present-day international relations.
Three one-hour periods per week.
149. **History of Russia** 3 units
Internal history of Russia with emphasis on Soviet Russia; Russia and the Soviet Union, the world politics, and world economics.
- 151A-151B. **Economic, Political and Social History of England** 3-3 units
A study of the principal currents in political and social progress of England in modern times. Special emphasis is placed on economic trends and developments.
Three one-hour periods per week.
153. **History of England** 2 units
A study of the English people through a survey of their political, economic, social, and cultural history.
Two one-hour periods per week.
- 161A-161B. **Hispanic America** 3-3 units
The first semester covers the history of Latin America through the Wars of Independence. The second semester brings the history of these countries up to the present time. It includes a study of the relations among the various South American countries, and with the United States, Europe, and Asia. See also Political Science 126.
Three one-hour periods per week.
167. **The Foreign Relations of the United States** 3 units
The foreign policy of the United States in the Nineteenth and Twentieth Centuries; the rise of the United States to a position of world power and the problems and changes growing out of this new position. See also Political Science 128.
Three one-hour periods per week.
168. **United States as a World Power** 3 units
The emergence of the United States as a major power during the Twentieth Century and the international repercussions of America's developing influence.
Three one-hour periods per week.
171. **The United States: Colonial Period** 3 units
Political, social, and constitutional history of the United States through the colonial period to 1800.
Three one-hour periods per week.

- 172. The United States: The Nineteenth Century** 3 units
 Social, cultural, and political history of the United States from Jefferson's administration to 1898.
 Three one-hour periods per week.
- 174. The United States: The Twentieth Century** 3 units
 Presents a general survey of political, social, and cultural aspects of United States history from 1898 to the present.
 Three one-hour periods per week.
- 179. American Constitutional History** 3 units
 A study of the Federal Constitution from the historical standpoint, with emphasis upon the constitutional convention and the constitutional controversies of the nineteenth and twentieth centuries.
 Three one-hour periods per week.
- 181. History of the Westward Movement** 3 units
 A study of the advances of the American frontier through its various stages from the Atlantic to the Pacific.
 Three one-hour periods per week.
- 188. History of California** 2 or 3 units
 The economic, social, intellectual, and political development of California from the earliest time to the present. Two units for the regular class with the possibility of an extra unit by conference.
 Two one-hour periods per week.
- 194. History of Education in the United States** 2 units
 The origin and rise of significant educational movements in the United States, with emphasis upon the integration of the American school system with our social institutions, the emergence and conflict of social classes, the changing balance between rural and urban life, immigration, movements of social reform, and governmental policy on social questions, and social impact of industrialization, urbanization, and war.
 Two one-hour periods per week.
- 197. Aids to Historical Research** 1 unit
 An introduction to historical method, including a study of the auxiliary sciences.
- 198. History and Historians** 1 unit
 A study of historiography, including intellectual processes by which history is written, the results of these processes, and the sources and development of history. Attention is also given to representative historians.
- 199A-199B. Special Studies in History (year)** 2-2 units
 Individual investigation of selected topics. 199A is required of all history majors. To be taken in the senior year in a field for which specific preparation has been made in the junior year.

Graduate Division

Prerequisites: Graduate standing, and the completion of History 197 or 198 and 199A or 199B.

- 254A-254B. Seminar in Modern European History** 3-3 units
 Studies in specialized periods of European history with emphasis centering around the early and late Middle Ages.
- 281A-281B. Seminar in American History** 3-3 units
 Studies in specialized periods of American history with emphasis centering around those subjects and periods for which the most research material is available; the colonial history of the United States; the Civil War period, and the Northwest.
- 288A-288B. Seminar in California History** 3-3 units
 Studies in California history, with emphasis upon the development of local institutions and industries.

ECONOMICS**Lower Division****1A-1B. Principles of Economics (year) 3-3 units**

First semester: Economic organization; the economic laws governing value, price, and the distribution of income; industry relations; the social security system.

Second semester: Money and banking; international trade, finance, and commercial policy; government finance; economic reform.

Three one-hour periods per week.

40. Elementary Statistics (spring) 3 units

Theory and uses of statistical methods. Practice in tabular and graphical representation of data. Measures of central tendency, relationships, and dispersion. Coefficients, index numbers, time series, and other forms of statistical calculations based on practical relevant data. Use of calculating machines encouraged.

Students taking this course should consult the instructor concerning the adequacy of their mathematical background.

Three one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in Economics: Economics 1A-1B or consent of the instructor.

100. General Economic Theory 3 units

Modern theories of price determination and evolution of ideas concerning wages, rent, and interest. Study of the principles of value and distribution under competition, monopoly, and monopolistic competition.

Three one-hour periods per week.

103. Business Cycles 3 units

A historical and descriptive study of the business cycle. Statistical analysis of business cycles and business forecasting. A comparison of various theories of the business cycle.

Three one-hour periods per week.

105. Consumer Economics 3 units

A general survey of the economics of consumption in the United States with an analysis of the determination of consumer demands and of the sources of supply.

106. Social-Economic Reform Movements (spring) 3 units

A historical and comparative survey of Socialism, Communism, Cooperation, and Utopianism, and other systems of reform and reconstruction.

See also Sociology 101.

Three one-hour periods per week.

113. Economic and Social History of the United States (spring) 3 units

The development of American economic institutions and the interaction between economic factors and the social and political conditions in the United States.

Three one-hour periods per week.

135. Principles of Money and Banking (fall) 3 units

The nature and function of money and credit; the structure and functions of the most important financial institution in American economic society.

Three one-hour periods per week.

150. Labor Economics (fall) 3 units

A survey of modern labor conditions, followed by a study of the more specific labor problems related to wages, hours of work, conditions of work, unionism, economic security, and industrial relations.

Three one-hour periods per week.

153. Personnel Administration 3 units

Personnel policies and procedures. Wage policy and administration. Collective bargaining procedures. Social aspects of industry and its effect upon personnel policy. The government's role in personnel administration.

Three one-hour periods per week.

155. Labor Legislation**3 units**

Industrial codes concerning safety and sanitation, and governing the employment of women and children in industry. Workmen's compensation; the Fair Labor Standards Act; laws and court decisions affecting wages, hours, picketing, union agreements, strikes, etc.

Three one-hour periods per week.

158. Government and Business**3 units**

Includes a study of governmental planning, governmental activity in the preservation and regulation of competition. Special emphasis is placed upon industrial codes and safety and sanitation legislation. Workmen's compensation, Fair Labor Standards Act, laws and court decisions, wages, hours, picketing, strikes, etc.

Three one-hour periods per week.

185. Social Insurance (spring)**3 units**

The causes of insecurity in the industrial system and of society's attempts to cope with the problem. Regularization of employment and other phases of economic planning; unemployment and old age insurance; security against industrial accidents and occupational diseases; health insurance; and public relief. See also Sociology 110A.

Three one-hour periods per week.

188. World Population and Resources (spring)**3 units**

Distribution of the world's population and resources and their relationship in terms of economic welfare; areas of population pressure; measures for economic cooperation in the interests of world peace.

Three one-hour periods per week.

190A. Principles of International Commerce (spring)**3 units**

The theory of international trade; balance of trade and payments; foreign exchanges and foreign trade financing; government control and direction of international trade.

Three one-hour periods per week.

190B. International Economic Policy**3 units**

Tariff and other mechanisms for the control of international trade; the reciprocal trade agreement program; and problems which will be of special importance for world economic reconstruction after the war, i.e., multilateral trade conventions, monetary stabilization, international investment, transport and communication agreements, international cartels and commodity agreements.

Three one-hour periods per week.

Graduate Division

Prerequisites: Graduate standing and adequate preparation in Economics.

201A-201B. Development of Economic Thought**3-3 units**

A year course tracing the development of economic thought from classical times to the present time. Special emphasis will be given to the study of the physiocrats, of the economic philosophy of Adam Smith, of the Malthusian school, of classicism and utilitarianism, of the "National School of Political Economy," of the historical approach to Economics, of the rise of socialism and economic radicalism, and of recent economic doctrines.

299A-299B. Special Problems in Economics**3-3 units**

Assignment of special economic problems for intensive study.

BUSINESS ADMINISTRATION**Lower Division****1A. Shorthand I (fall, spring)****3 units**

Introduction to Gregg Shorthand. A thorough study of the Gregg System (Anniversary Edition). Functional principles, penmanship, and phrasing.

Five one-hour periods per week.

1B. Shorthand II (fall, spring)

3 units

Beginning intensive theory. Development of speed in writing and transcription, particular attention being given to word building that develops new vocabulary. Includes a course in secretarial training and office practice.

Prerequisite: Business Administration 1A or its equivalent.

Four one-hour periods per week.

1C. Shorthand III (fall, spring)

3 units

An intensive dictation course. This course will include dictation and transcription, covering vocabularies of representative businesses, such as banking, law, insurance, retail lumber; advanced dictation on news articles and legal forms.

Prerequisite: Business Administration 1B or its equivalent.

Four one-hour periods per week.

2A. Typewriting I (fall, spring)

2 units

A skill subject designed to teach the fundamentals of touch typing in the shortest possible time.

Six one-hour periods per week.

2B. Typewriting II (fall, spring)

2 units

Advanced technique and practice. Stress will be placed upon the prevention of bad habits in typewriting, remedial typewriting, letter writing, carbon copies, addressing envelopes, continuity and rhythm.

Prerequisite: Business Administration 2A or its equivalent.

Six one-hour periods per week.

2C. Typewriting III (fall, spring)

2 units

Expert typing drills, tabulating, billing, problems involving the working out of real office jobs under office conditions.

Prerequisite: Business Administration 2B or its equivalent.

Six one-hour periods per week.

4. Word Study (fall)

2 units

A study of words used in business and industry with special drill on those commonly misspelled.

Two one-hour periods per week.

5A-5B. Business Machines (fall)

1-1 units

An intensive study of modern office machinery, including adding and calculating machines. The purpose of this course is to train commercial teachers and to meet the demand of present-day business life for skilled operators.

Three one-hour periods per week.

12. Bookkeeping (spring)

3 units

An introductory course in present-day theory and practice. Designed for those students with an employment objective who desire practical training in bookkeeping.

Three one-hour periods per week.

14A-14B. Principles of Accounting (year)

3-3 units

First semester: An introduction to the study of accounting. The mechanics of bookkeeping, balance sheet approach, including the general journal, specialized journals, posting, trial balances, columnar working sheets, closing entries, balance sheets, and profit and loss statements.

Prerequisite: Sophomore standing.

Second semester: An introduction to the study of accounting characteristics of the partnership and corporate form of business organization, cost accounting, department and branch accounting, analysis and interpretation of financial statements.

Prerequisites: B.A. 14A.

Two one-hour lecture periods and one two-hour laboratory period per week.

15. Mathematics of Finance (fall)

3 units

Presentation of the fundamentals of mathematics used in business transactions. Includes short-cut methods to facilitate rapid calculations, fractions, percentages, insurance computations, equations, simple and compound interest and discount, annuities, etc.

Prerequisite: Intermediate algebra or two years of high school algebra.

Three one-hour periods per week.

18. Business Law (fall)**3 units**

Historical development of law and its functions with respect to business. Special emphasis on courts and court procedure, law of contracts, and the law of negotiable instruments. Textbook, cases, and lectures.

Three one-hour periods per week.

Prerequisite: At least sophomore standing.

21. Business Mathematics (spring)**3 units**

Designed to give students a workable conception of the fundamental principles of the mathematics of business. The principles and processes of simple and compound interest, simple and successive trade discount, bank discount, and annuities are taught by means of practical problems.

Three one-hour periods per week.

41. Business English (spring)**3 units**

Fundamentals of grammar and sentence structure; punctuation; personal letters; the letter in business.

Prerequisite: Satisfactory score on Subject A test.

Three one-hour periods per week.

50. Salesmanship (fall)**2 units**

The personality and training of the salesman, sales analysis, interviews, steps in selling, the approach, arousing interest, producing conviction, creating desire, buying motives, closing the sale. Textbook, educational trips, and lectures.

Two one-hour periods per week.

Upper Division**101. Business Correspondence (fall)****3 units**

The letter in business; telegrams, memorandums, reports, advertising; the art of proofreading.

Prerequisite: English 1A.

Three one-hour periods per week.

105. Dictation and Transcription (fall)**2 units**

Essential points of English, style, and interpretation of 75,000 words of practice material all in shorthand. This course includes extensive dictation. Students are taught to check the spelling or division of every doubtful word and to refuse to transcribe a sentence if it does not "make sense."

Prerequisite: Business Administration 1C or its equivalent.

Three two-hour periods per week.

110A-110B. Secretarial Practice (year)**3-3 units**

This course is designed to increase the stenographic skill of the student by providing opportunity for the use of those fundamentals which were acquired in the basic courses. Additional training will be given in up-to-date business customs and procedures. The course is particularly adapted to the needs of advanced secretarial students and prospective business teachers.

Three one-hour periods per week.

111. Office Procedures (fall)**2 units**

Lectures and discussions concerning the problem of office management, i. e., flow of work, physical facilities, working conditions, nature and sources of supplies and equipment.

Two one-hour periods per week.

112. Secretarial Training (spring)**3 units**

The course is based on an activity program making performance in an actual business situation the major objective. A study is made of Form and Follow-up Letters, Telegraphic, Cable, and Radio Service, Banking and Financial Duties, Instruments of Credit, Office Machines and Appliances. Practical secretarial problems involving personality studies and business etiquette; the telephone, transportation, interviewing callers, keeping business calendars; and sources of material on business subjects.

Prerequisite: Business Administration 2B and 101.

Nine one-hour periods per week.

- 113. Office Practice (spring)** **3 units**
 Supervised on-the-job training in business offices in the area.
 One conference period and eight hours in a business office per week.
- 118. Business Law II (spring)** **3 units**
 A second course in business law with special emphasis on business organization, including partnerships, corporations, and agency; personal and real property, including sales, bailments, mortgages, landlord and tenant, lieu laws; security relations, including conditional sales, suretyships, insurance; trade regulations. Textbook, cases, and lectures.
 Prerequisite: B.A. 18.
 Three one-hour periods per week.
- *120. Business Organization (fall)** **3 units**
 Introduction to business management; the economic framework of modern business; management of physical and human resources; management of production and sales; administrative controls.
 Three one-hour periods per week.
- 125. Retail Advertising (fall)** **3 units**
 The planning and execution of advertising for the retail business: research, budgets, media, copy, layout, and management of the advertising department.
 Prerequisite: B.A. 134.
 Three one-hour periods per week.
- 126. Retail Store Management** **3 units**
 A study of retailing methods from the standpoint of the owner and manager. Includes the case study of such subjects as purchasing, planning, stocks, inventory methods, mark-up, accounting for stock control, pricing, style merchandising, and general management problems.
 Three one-hour periods per week.
- *130. Business Finance (spring)** **3 units**
 The instruments and methods of financing the industrial enterprise. Includes financing methods of the smaller and larger forms of business organization.
 Three one-hour periods per week.
- 133. Personal Finances and Investments (spring)** **3 units**
 A study of financial institutions and methods of achieving financial security, including borrowing and lending, controlling budgets, investing in securities, buying insurance and annuities, arranging for trust funds, financing home ownership, figuring income tax.
 Three one-hour periods per week.
- *134. Marketing (spring)** **3 units**
 The organization and management of markets. A survey of the activities involved in transferring manufactured goods and agricultural products from producer to consumer.
 Three one-hour periods per week.
- 160A-160B. Advanced Accounting (year)** **3-3 units**
 Intensive study of the advanced theory of accounts and its application. Textbook, selected problems, and lectures on the various phases of accounting theory and practice.
 Two one-hour lectures and one two-hour laboratory section per week.
 Prerequisite: B.A. 14A-14B; 160A prerequisite to 160B.
- *161. Cost Accounting (fall)** **3 units**
 Intensive study of methods used in accounting for production costs. Includes job order system, process system, and standard costs. Two one-hour lectures and one two-hour laboratory section per week.
 Prerequisite: B.A. 14A-14B. B.A. 160A recommended.
- *162. Auditing (spring)** **3 units**
 Presentation of modern auditing principles and procedures followed in an examination of financial statements. Textbook, selected cases and problems and lectures.
 Two one-hour lectures and one two-hour laboratory section per week.
 Prerequisite: B.A. 14A-14B, 160A. 160B is recommended.

163. Special Accounting Systems and Budgeting Procedures 3 units

An analysis of the accounting records needed for various types of business enterprises. The need for budgeting, its applicability to various scales of operations, and consideration and preparation of illustrative budgets.

Three one-hour periods per week.

169. Federal Income Tax Procedure (fall) 3 units

A study of the federal laws relating to personal, estate, and corporation income taxes, from the accounting point of view. Lectures and case problems.

Prerequisite: B. A. 14A-14B.

Three one-hour periods per week.

Graduate Division**252. Philosophy of Business Education 3 units**

The development of a basic philosophy of Business Education.

GEOGRAPHY**Lower Division****2. Cultural and Regional Geography (fall, spring) 2 units**

The physical environment as the home of man; the adjustments between population groups and the areas where they live; regional differences and their causes.

Two one-hour periods per week.

5. Economic Geography (year) 3-3 units

A geographic interpretation of man's economic activities. Includes a study of the natural environment and a regional survey of the world's agricultural, industrial, and mineral distribution.

Three one-hour periods per week.

Upper Division**123. International Geopolitics 2 units**

See Political Science 123.

Two one-hour periods per week.

181. Current Problems in Political Geography 2 units

See Political Science 127.

Two one-hour periods per week.

PHILOSOPHY**Lower Division****6A-6B. Introduction to Philosophy (year) 3-3 units**

First semester: An elementary survey of the fundamental concepts and issues in ethics, logic, metaphysics, religion, ontology, and the theory of knowledge. Illustrations are drawn from the philosophical sources, including the philosopher-poets and contemporary writers.

Second semester: A special consideration of the basic problems of philosophy, including historical references to solutions presented in the past.

Three one-hour periods per week.

Upper Division**106. Reform Movements 3 units**

See Economics 106.

113. Contemporary Thought 2 units

A survey and critical analysis of the more prominent philosophies of the present day, with particular emphasis upon political thought. Students who have credit for Political Science 113 may not receive additional credit for this course.

124. Philosophy of Education 2 units

See Education 124.

POLITICAL SCIENCE

Lower Division

1A-1B. Introduction to Government (year) 3-3 units

A study of the development, ideology, techniques, organizations and functions of various governments. Comparison and contrast with the government of the United States is stressed. The first semester covers the United States Government while the second semester includes selected foreign governments.

Three one-hour periods per week.

51. American Constitutional Government (spring) 2 units

A study of the structure, operation, and development of the American constitutional system.

This course meets the requirements in United States Constitution established by the Legislature of California.

Two one-hour periods per week.

Upper Division

113. Contemporary Political Thought 2 units

A survey and critical analysis of the major political ideas of the present day, with particular emphasis on American views.

Two one-hour periods per week.

114. Public Opinion, Propaganda, and Political Dynamics 2 units

An analysis of the nature of public opinion, its effectiveness, and the devices for influencing it; the newspaper, radio, motion picture, and other instruments of communication are studied; pressure groups of local, state, and national significance are included. Emphasis will be placed upon the relationship between government and public opinion, noting particularly the relationship between the two and the problem of peace and war.

Two one-hour periods per week.

115. American Political Ideas 2 units

An exposition and critical analysis of the major political ideas in American history with special emphasis upon the recent thinking about American political ideas. Among the problems discussed in a search for a sound philosophy for democracy will be the ideas of majority rule, public opinion, propaganda, society's needs, minority rights, and force and persuasion.

Two one-hour periods per week.

123. International Politics 2 units

Problems of nationalism, imperialism, and world federation, particularly in connection with current problems of maintaining peace; the course includes a study of geopolitical problems.

Two one-hour periods per week.

124. International Organizations 3 units

See History 124.

126. Latin-American International Relations 3 units

See History 161B.

127. International Relations 3 units

A study of the instruments, techniques, institutions, and problems of international government with stress upon current issues of international diplomacy, including the United Nations.

Three one-hour periods per week.

128. Recent Foreign Policy of the United States 3 units

See History 167.

138. International Relations in the Far East 2 units

Historical development and present difficulties in the relations between the various world powers in the Pacific area; the changing importance of the Far East and its resultant problems.

152. American Political Parties and Practical Politics 2 units

A study of the role of political parties in American government; an analysis of the history, organization, and activities of parties; a study of the mechanisms which influence political parties; pressure groups; practical politics studied from the point of view of the nominating systems; the conduct of elections; campaign techniques, voting; and the spoils system.

Two one-hour periods per week.

153. The Government of Great Britain 2 units

A study of the legal, administrative, and parliamentary development of England from Anglo-Saxon times to the present.

Two one-hour periods per week.

158. Government and Business 3 units

See Economics 158.

198. Directed Reading in Political Science 2 units

This course will include selected readings in political theory, international relations, administrative management, politics, and legislation, and Latin American political institutions.

PSYCHOLOGY**Lower Division****1. General Psychology (fall, spring) 3 units**

An introduction to the study of human behavior, emphasizing the significance of maturation, learning, motivation, and individual differences as they evolve in personality.

Usually restricted to sophomores.

Three one-hour periods per week.

2. Applied Psychology 3 units

Survey of the areas in which the general principles of psychology are applied, such as medicine, advertising, salesmanship, religion, business and personal relations. Course begins with a short survey of general principles; remainder of semester is devoted to independent supervised study of particular fields of application of student's own choice.

40. Introduction to Statistical Methods 3 units

Students who have credit for Economics 40 may not receive credit for this course.

Three one-hour periods per week.

80. Reading-Study Service 1 unit

A basic course in the fundamentals of reading. This course is designed to permit students to increase both their rate and comprehension ability in pleasure and work-study reading. Students desiring to improve their reading ability or students planning to teach reading in the junior or senior high schools may benefit from this developmental reading program.

Two one-hour per week, plus individual conferences.

Upper Division**105. Social Psychology 3 units**

Includes a study of the relationship between social organization and the normative personality attributes of the members of society; special attention is directed toward the socialization process and the ways in which the human organism develops what is commonly known as human nature in collectively maintained associations. The problems of society growing out of ethnic, racial, class, sex, and age differences are discussed.

Three one-hour periods per week.

110. Educational Psychology 2 units

See Education 110.

111. Child Growth and Development 2 units

See Education 111.

114. **Public Opinion, Propaganda and Morale** 2 units
See Political Science 114.
115. **Measurement in Education** 2 units
See Education 115.
153. **Psychology of Personnel Management** 3 units
See Business Administration 153.
199. **Special Problems in Psychology** 3 units
Prerequisite: At least six units upper division Psychology.

Graduate Division

Prerequisite: Graduate standing and adequate preparation in Psychology.

212. **Psychology of Adolescence** 3 units
A study of the physical, mental, social and emotional adjustment of the adolescent; ways of diagnosing personality development in relation to his educational and social needs; case method technique for investigating adolescent behavior.
Three one-hour periods per week.

SOCIOLOGY

Lower Division

- 1A-1B. **Introduction to Sociology** (year) 3-3 units
1A—An introduction to the study of the social life of man and its relations to the factors of culture, natural environment, heredity, and the group.
1B—The study of social disorganization and resulting social problems.
Three one-hour periods per week.

8. **Game Law Enforcement** (spring) 2 units
To acquaint the student with the basic concepts of law enforcement, with special emphasis on fish and game law enforcement work. Most of the course is conducted by members of the Bureau of Patrol of the California Division of Fish and Game as a cooperative program to improve public understanding of wildlife conservation.
This course is *not* applicable toward the major or the minor in Sociology nor toward the basic requirement in Social Sciences.
One two-hour lecture and laboratory period per week.

Upper Division

101. **Social-Economic Reform Movements** (fall) 3 units
See Economics 106.
102. **Methods in Social Work** (spring) 3 units
An introduction to the methods of case work, group work and community organization, with special emphasis on case-work techniques and skills. Includes approximately 50 hours of field work, under supervision, in community agencies.
Three one-hour periods per week.
- *103. **Crime and Delinquency** (spring) 2 units
A survey of the problem of adult crime and juvenile delinquency, including associated factors and processes in the administration of criminal justice, and the juvenile court.
Two one-hour periods per week.
104. **Social Insurance** (spring) 3 units
See Economics 185.
105. **Psychiatric Information for Social Workers** (fall) 2 units
An introduction to the schools of psychiatric thought. Development of the mental hygiene movement. Community services for the prevention and treatment of mental illness.
Two one-hour periods per week.

* Not given 1949-50.

- *106. Community Organization** (spring) **2 units**
The concept of the community, the sociological background of community organization. Methods in studying the community.
Two one-hour periods per week.
- 108. Problems and Practices of Law Enforcement** (spring) **2 units**
Review of the laws of arrest, rules of evidence and court procedure. A study of the laws and practices governing seizure, identification, and presentation of evidence. Includes a study of both Federal and State game laws, cooperation with the Fish and Wildlife Service, and instruction in the California Deadly Weapons Act. Provides opportunity for practical experience and field work.
This course is *not* applicable toward the major or the minor in Sociology nor toward the basic requirement in Social Science.
One two-hour period per week.
- 110A-110B. The Social Services** (year) **3-3 units**
110A—Historical development of the social services, including relationships between private and public services.
110B—Modern social services—their organization and programs—with special emphasis on the public social services.
Three one-hour periods per week.
- 144. Rural Social Problems** **3 units**
Sociological study of the rural community and an analysis of the social problems of the present-day rural community.
Three one-hour periods per week.
- *160. The Family** (fall) **3 units**
A study of the social development of the family and its contribution to cultural continuity; emphasis upon modern problems of family life and possible solutions.
Three one-hour periods per week.

* Not given 1949-50.

GROUP MAJOR

The Group Major has been developed to serve the needs of those students who wish to secure an A.B. Degree which is broadly cultural in character. It provides a "General Education" background for those who wish to pursue a type of professional training which demands a broad rather than a specialized undergraduate program. Many combinations are possible, as the listings below indicate.

The lower division program for a Group Major must include the following :

English 1A-1B	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences	12 units
(See page 39)	
Physical Education (including 5 or 15)	2 units
Psychology	3 units
Social Science	12 units
(Including fulfillment of requirement in U. S. History and Constitution—see page 39)	
Electives	6 units

(Chosen from Art, Music, Foreign Language, Philosophy, Speech,
English 46A-46B, 74A-74B.)

The major consists of 36 units in the upper division, distributed among three subject-fields, chosen from the lists of majors and minors on pages 40 and 41 or from subdivisions of those fields, as listed under the various divisions of the curricula. The student following this major may, in consultation with his adviser, arrange the distribution of the 36 units in whatever proportion seems best, subject, however, to the following requirements :

(a) Not less than six upper division units must be taken in each field, together with the lower division prerequisites ; the total of upper division units in any one field should not exceed 18.

(b) Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page 40).

(c) Sufficient work must be taken in another field to meet the minimum requirements of the State for a minor (see page 41).

SUGGESTED GROUP MAJORS

Allied Arts (See page 64)	English	Music
English	History	Speech
Foreign Language	Economics	English
Speech	Natural Sciences	Natural Sciences
English	Physical Education	Business Administration
Journalism	Social Service	Mathematics
Social Sciences	Radio	Social Sciences
Education	Business Administration	Foreign Languages
Social Service	Journalism	Speech-Radio
Home Economics	Recreation	
	Conservation and	
	Wildlife Management	
	Arts and Crafts or	
	Education	

HUMBOLDT STATE COLLEGE
DIRECTORY OF PERSONNEL

Administered Through the
STATE DEPARTMENT OF EDUCATION

EXECUTIVE OFFICERS

ROY E. SIMPSON-----Superintendent of Public Instruction and Director of Education
AUBREY A. DOUGLASS-----Associate Superintendent of Public Instruction
and Chief, Division of State Colleges and Teacher Education

STATE BOARD OF EDUCATION

WILLIAM L. BLAIR, *President*-----Pasadena
RAYMOND J. ARATA-----San Francisco
BYRON H. ATKINSON-----Glendale
C. J. HAGGERTY-----San Francisco
MRS. E. T. HALE-----San Diego
GILBERT H. JERTBERG-----Fresno
JOSEPH P. LOEB-----Los Angeles
FRED W. SMITH-----Ventura
MRS. E. K. STRONG-----Stanford University

COLLEGE ADMINISTRATIVE OFFICERS AND ASSISTANTS

Arthur S. Gist	President
Homer P. Balabanis	Vice President and Dean of Arts and Sciences
Ivan C. Milhous	Dean of Professional Education
Leonard Christensen	Dean of Students and Director of Housing
Kate Buchanan	Dean of Women
Burton Henry	Dean of Men
Harry E. Griffith	Director of Elementary Education and Principal of the College Elementary School
Albert D. Graves	Director of Secondary Education
Myrtle M. McKittrick	Registrar
Jessie T. Woodcock	Comptroller
Helen A. Everett	Librarian
Floyd Erickson	Senior Librarian
Dean Galloway,* Wallace C. Look	Junior Librarians
Herbert Moore, M.D.	College Physician
Dorothy Minnick	College Nurse
Noah A. Stromberg, Robert Bryan, Leland Domeyer	College Dentists
Evelyn Plunkett	Recorder
Eugene A. Flocchini	Assistant to the Comptroller
Frances Tolle	Secretary to the President
Ava Hastey	Secretary to the Dean of Arts and Sciences
Frances Brizard	Secretary to the Dean of Professional Education
Helen Walker	Secretary to the Principal of the College Elementary School
Delta Hogue	Secretary to the Personnel Deans
Margaret Brookins	Comptroller of Student Accounts
Herbert Doss	Property Clerk
June Offenbacher	Switchboard Operator
Barbara DuBord, Helen Flaherty, Leah Jensen, Charlotte Johnson, Patricia Myers, Geraldine Williams, A. E. Zetterburg	Clerical Assistants
Alexander McMillan	Supervisor of Buildings and Grounds

DIVISIONAL CHAIRMEN, 1949-50

Division of Fine and Applied Arts	Don W. Karshner
Division of Health and Physical Education	Harold A. Bishop
Division of Language and Literature	Maurice Hicklin
Division of Natural Sciences	Harry D. MacGinitie
Division of Social Sciences	Hyman Palais

HUMBOLDT STATE COLLEGE IMPROVEMENT ASSOCIATION

An incorporated body to obtain necessary property for the State and to serve in an advisory capacity for the College

J. J. Krohn, President

Arthur S. Gist, Secretary

Charles R. Barnum

Chester Connick
Vernon L. Hunt

Gordon Manary
Robert W. Matthews

* Leave of absence, 1949-50.

FACULTY COMMITTEES—1949-50

Administrative Council

- * President Gist
- Dr. Balabanis
- Miss Buchanan
- Dr. Christensen
- Dr. Milhous
- Mrs. McKittrick

Academic Council

- * Dr. Balabanis
- Dr. Milhous
- Divisional Chairmen

Admissions

- * President Gist
- Mrs. McKittrick
- Dr. Balabanis
- Dr. Milhous

Advisory Council

- * President Gist
- Dr. Milhous
- Dr. Balabanis
- Dr. Christensen
- Miss Buchanan
- Mrs. McKittrick
- Mrs. Everett
- Mr. Bullen
- Mr. Telonicher
- Dr. White
- Dr. Lanphere
- Divisional Chairmen
- Student Body President
- 3 student representatives

Assembly

- * Mr. Van Duzer
- Mr. Flye
- President Gist
- President Student Body

Curriculum

- * Dr. Balabanis
- Dr. Milhous
- President Gist
- Mrs. McKittrick
- Divisional Chairmen
- Instructional representative of field under discussion

Faculty Promotion

- * Dr. Lanphere
- Mr. Bullen
- Mr. Barlow
- Miss Johnson
- Dr. Graves

Health

- * Mr. Bishop
- Mrs. Minnick
- Dr. Christensen
- President Gist

Honor Awards

- * President Gist
- Miss Johnson
- Mrs. McKittrick
- Dr. Balabanis
- Dr. Milhous

Housing

- * Dr. Christensen
- Miss Buchanan
- Mrs. Woodcock
- Dr. Smith

Humboldt Foundation

- * President Gist
- Dr. Balabanis
- Dr. Milhous
- Miss Buchanan
- Dr. Christensen
- Mrs. Woodcock

Library

- * Mrs. Everett
- Dr. Balabanis
- Dr. Milhous
- Divisional Chairmen

Recreation and Social Life

- * Mrs. Graves
- Mr. Roberts
- Miss Cornelius
- Mrs. Woodcock
- Mrs. Barlow
- Mrs. Merklin

Scholarship

- * Miss Platt
- President Gist
- Miss Johnson
- Mr. Arnold
- Dr. Henry
- Mrs. McKittrick

Student Personnel

- * Dr. Christensen
- Miss Buchanan
- President Gist
- Mrs. McKittrick

Student Recruitment

- * Dr. Milhous
- Miss Buchanan
- Mr. Alward
- Mr. Bullen
- Mr. Telonicher
- Consultants:
 - Mrs. McKittrick
 - Dr. Karshner

* Chairman.

FACULTY

GIST, ARTHUR S., M.A.

PRESIDENT

B.Ed., M.A., University of Washington; additional graduate study, University of California, Columbia University. Director Teacher Training, San Francisco State Teachers College; Summer Session Faculty, University of Washington, University of Utah, George Peabody College for Teachers, University of California, University of Southern California, University of Texas, Syracuse University. Author: "Elementary School Supervision"; "Administration of an Elementary School"; "Clarifying the Teacher's Problems"; "Administration of Supervision"; "The Teaching and Supervision of Reading" (co-author); "New Stories from Eskimo Land" (co-author). Editor of Yearbooks, Department of Elementary School Principals, National Educational Association.

* ALWARD, HERBERT V., JR., M.A.

ASSISTANT PROFESSOR OF ENGLISH
AND JOURNALISM

A.B. English, San Francisco State College; M.A., School of Journalism, University of Oregon; Graduate teaching assistant, University of Oregon School of Journalism; Summer Session faculty, University of Oregon; Faculty, Oregon State System of Higher Education, Portland Summer Session. Three and one-half years' newspaper experience.

ANDERSON, ROY C., Ed.D

ASSISTANT PROFESSOR OF EDUCATION

A.B., Augustana College; M.A., University of Michigan; Ed.D., Stanford University; Northern Michigan College of Education. Elementary and high school teacher; Statistician and psychological consultant, United States Army and Army Air Forces; participant, Richmond School Survey.

ARNOLD, HOMER L., M.A.

PROFESSOR OF MATHEMATICS AND PHILOSOPHY

B.S., Indiana State Teachers College (Eastern Division); A.B., University of Indiana; M.A., University of Chicago; additional graduate study, University of Chicago, Stanford University, University of Michigan. Head of Department of Mathematics, Central High School, Elkhart, Indiana; teacher of mathematics, Central High School, Kalamazoo, Michigan, and Central Union High School, Calumet-Laurium, Michigan; Head of Department of Education and Psychology, New Mexico State Teachers College. Member American Mathematical Society.

BALABANIS, HOMER P., Ph.D.

VICE PRESIDENT, DEAN OF THE SCHOOL OF ARTS
AND SCIENCES AND PROFESSOR OF ECONOMICS

Ph.B., M.A., University of Chicago; Ph.D., Stanford University. Assistant, School of Commerce and Administration, University of Chicago; Teaching Assistant, Department of Economics, Stanford University; Summer Session Faculty, San Jose State College, Fresno State College, Miami University (Ohio); Director of Summer Session, Humboldt State College. Senior Economist, Office of Price Administration, Washington, D. C., 1943; Principal Divisional Assistant, Economic Affairs, Department of State, 1943-1944. Author: "The American Discount Market," "Travel Sketches of Europe." Contributor to "Encyclopedia Americana" and "Americana Annual."

BARLOW, LELAND, M.A.

ASSISTANT PROFESSOR OF MUSIC

Mus.B., Oberlin Conservatory; M.A., State University of Iowa. Graduate study University of Southern California. Instructor in music, Dakota Wesleyan University; instructor in voice, choral work and choral conducting, Oberlin Conservatory of Music; U. S. N. R., 1942-1946. Director "Meet Your Navy" choir and "Bluejacket Choir" on weekly coast-to-coast broadcasts.

BISHOP, HAROLD A., B. P.E.

ASSISTANT PROFESSOR OF PHYSICAL EDUCATION

B.P.E., Springfield College, Massachusetts; Graduate study, University of California at Los Angeles, University of Southern California, Claremont College, and University of Oregon. Teacher of Physical Education and coach, elementary and high schools; Principal, Military Academy, Brentwood, California; Director of summer camps and workshops; Athletic Officer, U. S. Army; Teaching Assistant, University of Oregon; State Supervisor of Health and Physical Education, State of Oregon; Director of Athletics, Health and Physical Education, Southern Oregon College of Education. Member, Phi Delta Kappa.

BUCHANAN, KATE, M.A.

ASSISTANT PROFESSOR OF ENGLISH

A.B., University of Oregon; M.A., Washington State College; Graduate study, Columbia University. Teacher of English and Speech, Roseburg Senior High School, Oregon; Head Resident, Girl's Dormitory, University of Oregon; University Summer Employment Office, Portland, Oregon; Dean of Women and teacher of English and Speech, Lewis and Clark College, Portland, Oregon; Assistant Director, U.S.O., Salt Lake City, Utah; Supervisor Women's Housing, Women's Counselor, du Pont War Project, Hanford, Washington; Instructor in English, University of Oregon.

* Leave of absence, 1949-50.

BULLEN, NEWELL REESE, M.A.

ASSISTANT PROFESSOR OF ART

A.B., Utah State Agricultural College; M.A., Stanford University; Certificate of Completion, University of Paris; additional study at Academy of Advertising Art, and California College of Arts and Crafts.

CHRISTENSEN, LEONARD, Ed.D.ASSISTANT PROFESSOR OF EDUCATION
AND DEAN OF STUDENTS

A.B., San Francisco State College; M.A., University of California; Ed.D., Stanford University. Head of Department of Physical Education and Director of Reading Clinic, Willard Junior High School, Berkeley, California; Principal, Gustine Union Elementary School; Army Air Forces Training Officer and Commandant of Cadets; Military Government Education Specialist, Headquarters Far Eastern Command, Tokyo, Japan; Educational Officer, United States Office of Education, San Francisco.

CORNELIUS, SARAH R., M.A.

ASSISTANT PROFESSOR OF EDUCATION

Ed.B., U. C. L. A.; M.A., Columbia University. Classroom teacher, South Pasadena, California; Lower Merion, Pennsylvania; New York City. Supervisor Student Teaching, State Teachers College, California, Pennsylvania; Principal, Roosevelt School, Lancaster, California; Principal, Center Street School, Manhattan Beach, California.

FLYE, RICHARD C., M.A.

ASSISTANT PROFESSOR OF MUSIC

A.B., University of Virginia; M.A., Columbia University; Professional Diploma in Music Education, Columbia University; Graduate study, Juilliard School of Music, and University of Paris, France. Supervisor of Public School Music, Charlottesville, Virginia; instructor at Mary Washington College, and Juilliard School of Music.

ERICKSON, FLOYD R., B.S.

SENIOR LIBRARIAN

B.E., State Teachers College, Superior, Wisconsin; B.L. in Library Science, University of Minnesota. Order Librarian, Stout Institute, Menomonie, Wisconsin.

EVERETT, HELEN A., M.A.

LIBRARIAN

A.B., University of Oregon; Certificate of Librarianship and M.A., University of California. Teacher in Bandon and Eugene high schools, Oregon, and University of Oregon; Library assistant, Universities of Oregon and California; Acting Librarian, Southern Oregon College of Education; Librarian, Marshfield High School, Oregon; School Library Supervisor, Medford, Oregon.

FORBES, JOSEPH, M.S.DIRECTOR OF ATHLETICS AND
ASSISTANT PROFESSOR OF PHYSICAL EDUCATION

A.B., Occidental College; M.S., University of Oregon; graduate work, Occidental College, University of Southern California; University of Oregon. Physical educator and athletic coach: Occidental College; Roosevelt High School; Compton College.

*** FULKERSON, CHARLES, A.B.**

ASSISTANT PROFESSOR OF MUSIC

A.B., San Jose State College; graduate study, University of Southern California. Piano study under Benning Dexter, John Crown, Alice Ehlers.

*** GALLOWAY, RICHARD DEAN, A.B.**

JUNIOR LIBRARIAN

A.B. Humboldt State College.

GRAVES, ALBERT D., Ed.D.

PROFESSOR OF EDUCATION

A.B., M.A., and Ed.D., Stanford University. City Superintendent of Schools, San Bernardino; Deputy Superintendent of San Francisco Schools in charge of secondary education; Associate Superintendent of San Francisco Schools in charge of instruction; Summer Session Faculty, Redlands University, Claremont Colleges Graduate School; San Francisco State College, Stanford University; faculty, Extension Division, University of California; faculty, Stanford University. Member, Phi Delta Kappa; contributor to educational journals and year-books.

GRAVES, THELMA WALTERS, A.B.

ASSISTANT IN HOME ECONOMICS

A.B. University of California, Santa Barbara. Teacher in public secondary schools at San Bernardino and San Francisco. President of San Francisco Home-making Division of California Home Economics Association. Member of Western Home Economists' Testing Panel.

GRIFFITH, HARRY E., M.A.

PROFESSOR OF EDUCATION

Ed.B., University of California at Los Angeles; M.A., University of California at Berkeley; additional graduate study at Claremont Colleges, University of Southern California and Stanford University. Instructor in Physical Education, Central Junior High School, Riverside, California; Instructor in Physical Education and Head of Department, Riverside Junior College and High School; Summer Session Instructor in Physical Education, University of California at Los Angeles. U. S. Army, Major, Director of Normal Schools and Teacher Training in Japan.

* Leave of absence, 1949-50.

HENRY, BURTON, Ph.D.

ASSISTANT PROFESSOR OF EDUCATION

A.B., Harvard University; graduate work at Yale University; M.Ed. and Ph.D., University of Southern California; social studies teacher and counselor Burbank High School; teaching assistant in Educational Psychology, University of Southern California; Assistant Professor of Psychology, San Jose State College; Lecturer in Education, Stanford Summer Session. Assistant Director, Pacific Coast Council on Intercultural Education. Phi Beta Kappa, Phi Kappa Phi, Phi Delta Kappa.

HICKLIN, MAURICE, M.A.

PROFESSOR OF ENGLISH

A.B., University of Missouri; B.J., School of Journalism, University of Missouri; M. A., Stanford University, Graduate teaching assistant, University of Missouri; Instructor, University of Washington; graduate teaching assistant, Stanford University; Summer Session Faculty, University of California at Los Angeles.

HIMSTREET, WILLIAM C., A.B.

ASSISTANT IN COMMERCE

A.B., San Jose State College; graduate study, San Jose State College and Stanford University. Instructor, Petaluma High School; Flight and ground school instructor, Naval Air Navigation School. Member Pi Omega Pi, Kappa Delta Pi.

*JACKSON, WILLIAM F., M.B.A. ASSISTANT PROFESSOR OF BUSINESS ADMINISTRATION

B.S., M.B.A., University of California; teaching assistant, Department of Business Administration, University of California; member Beta Alpha Psi, Phi Beta Kappa, and Beta Gamma Sigma.

JENKINS, R. HORACE, M.S.

PROFESSOR OF INDUSTRIAL EDUCATION

B.S. and M.S., Oregon State College; Graduate, Central State Teachers College, Oklahoma, four-year Classical Course and three-year Art and Shop Course; additional study, Oswego State Normal School, University of California, University of Chicago, Columbia University, Stanford University. Assistant in Art, Oklahoma State Teachers College; practical experience in trades and industries; experience as owner and manager of commercial pottery shop. Author of "Practical Pottery for Craftsmen and Students"; contributor to "Industrial Arts and Vocational Education, Popular Science, Mechanics Illustrated, School Arts, Science and Mechanics, Ceramic Age, Home Craft, and Instructor.

JOHNSON, ADELLA, M.A.

ASSOCIATE PROFESSOR OF MODERN LANGUAGES

A.B., University of Minnesota; M.A., University of Washington; additional graduate study, University of Washington, Stanford University, Columbia University, University of Minnesota, University of California, Casa Panamericana, Mills College, University of Paris, France. Travel in Europe with Intercollegiate French School; travel in Mexico. Teaching Fellow in French, University of Washington; Department Head, Foreign Languages, State Teachers College, Spearfish, South Dakota.

KARSHNER, DON W., Ed.D.

ASSISTANT PROFESSOR OF SPEECH

A.B., Washington State College; Ed.D., Stanford University. Teacher in public secondary schools at Aberdeen and Seattle, Washington; European travel; Teaching Fellow in Stanford Language Arts Investigation; Instructor, Menlo School and Junior College, Menlo Park, California. Educational Services, U. S. Navy, 1943-45. Author: "Trends in Teaching Dramatic Literature in American High Schools: 1900-1945." Contributing Author: *Foreign Languages and Cultures in American Education*.

KNOWLES, WILLIAM, Ph.D.

ASSISTANT PROFESSOR OF ECONOMICS

B.S., Iowa State College; M.A. and Ph.D., University of Wisconsin. Worked in Industrial Relations Department of Allis Chalmers Manufacturing Company; Wage Stabilization Division of War Labor Board.

KROEGER, HERMIE, M.S.

ASSISTANT PROFESSOR OF PHYSICAL EDUCATION

B.S. and M.S., University of Oregon. Instructor of Health and Physical Education, Boise High School, Boise, Idaho, and College of Idaho, Caldwell, Idaho. Instructor of Health and P.E. summer session, University of Oregon and Southern Idaho College of Education.

LANPHERE, WILLIAM M., Ph.D.

PROFESSOR OF BIOLOGICAL SCIENCES

B.S., M.S., and Ph.D., University of Washington. Teaching Fellow and Associate in Biological Science, University of Washington; Instructor, Western Washington College of Education.

LEWIS, JOHN H.

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES

B.S., Oregon State College; graduate study, Oregon State College. Employed by U. S. Wildlife Service, in rodent control, and as Junior Refuge Manager, Malheur Lake Migratory Waterfowl Refuge. Member Alpha Zeta, National Agricultural Honor Society.

LOOK, WALLACE C., B.S.

SENIOR LIBRARIAN

A.B. Humboldt State College; B.S., in Library Science, University of California. Graduate study, University of California. Librarian Curriculum Laboratory, University of California.

MACGINITIE, HARRY D., Ph.D.

PROFESSOR OF PHYSICAL SCIENCES

A.B., Fresno State College; Ph.D., University of California. Member of Sigma Xi, Geological Society of America, National Research Council; Associate Geologist, United States Geological Survey; Research Associate in Paleobotany, Carnegie Institution, Washington, D. C. Author: "The Trout Creek Flora of Southeastern Oregon," "Fossil Flora and Geology of the Weaverville Beds in Trinity County, California," and "A Middle Eocene Flora from the Central Sierra Nevada."

McKITTRICK, MYRTLE M., A.B.

REGISTRAR

A.B., Willamette University; graduate study, University of Washington. Experience as high school teacher, principal and secretary. Author: "Vallejo, Son of California."

MILHOUS, IVAN C., Ph.D.

PROFESSOR OF EDUCATION AND DEAN OF THE SCHOOL OF EDUCATION

A.B., Penn College; M.A., Haverford College; Ph.D., State University of Iowa. Teaching assistant, Penn College; High School Principal, Saint Anthony Consolidated School; Superintendent of Schools, Argyle Consolidated School, Donnellson Public Schools; instructor in Education, Iowa Wesleyan College; Graduate Assistant in Education, University of Iowa; Head, Department of Education and Psychology and Director of Teacher Training, Oregon College of Education, Monmouth, Oregon; Acting State Supervisor of Elementary Education, State of Oregon.

NEILSON, ROB ROY, M.B.A.

ASSISTANT PROFESSOR OF BUSINESS ADMINISTRATION

B.S., M.B.A. University of California. Teaching Assistant, University of California; public accountant.

NORTON, JACK, B.S.

INSTRUCTOR IN PHYSICAL EDUCATION

B.S., Northeastern (Oklahoma) State College; graduate work, Humboldt State College. High School teacher and director of athletics; area principal, Navajo Service, Arizona.

OVANIN, NIKOLA L., M.A.

ASSISTANT IN MUSIC

B.M., Cleveland Institute of Music; B.S., Western Reserve University; B.A., M.A., Hamline University; graduate study, University of California. Music instructor and supervisor, secondary schools; St. Thomas College; instructor in Piano, Whitworth College; instructor in music, Spokane Conservatory of Music. Member of philharmonic and choral groups and composer of symphonies and other musical compositions.

PALAIS, HYMAN, Ph.D.

ASSISTANT PROFESSOR OF HISTORY

A.B., M.A., Ph.D., University of California at Los Angeles. Teacher in junior and senior high schools; teaching assistant, University of California at Los Angeles; Assistant Professor, South Dakota School of Mines and Technology; Instructor in Navy V-5 Program, California Polytechnic College; Summer session faculty, Occidental College. Contributor to various historical publications. Member, Medieval Academy of America, Pi Gamma Mu, Phi Delta Kappa.

* PECK, ALBERT D., A.B.

ASSISTANT IN MATHEMATICS

A.B., Chico State College; Naval Air Navigation and Instrument Flight Schools; Instructor Aviation Ground School.

PEITHMAN, ROSCOE E., M.S.

ASSISTANT PROFESSOR OF PHYSICAL SCIENCE

B.Ed., Southern Illinois Normal University; M.S., University of Illinois. Instructor, Illinois high schools; Lieutenant, U.S.N.R.; Coordinator W.T.S. Pilot Training Program, Salem, Illinois; Air Navigator; Engineering Officer, Link Celestial Navigation Trainer and Instructor in Navigation; Flight Instructor; officer in charge of Electronic Navigation, N.A.A.S., Alameda. Graduate United States Naval Air Navigation School, Hollywood, Florida, and Electronic Navigation School, N.A.A.S., Banana River, Florida.

PLATT, IMOGENE B., M.A.

ASSISTANT PROFESSOR OF BUSINESS ADMINISTRATION

A.B., M.A., University of Washington; graduate work, Stanford University. Registrar, Humboldt State Teachers College.

ROBERTS, BRUCE J. M.A.

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES

A.B., San Francisco State Teachers College; M.A., Stanford University. Graduate study, University of California, Stanford University, three quarters residence research in marine biology, Hopkins Marine Station, Pacific Grove. Elementary school science teacher, Tulare County, California; junior high school science and photography, Petaluma, California; mathematics and photography, Roosevelt Junior High School, San Francisco; instructor in chemistry, Hayward Union High School, Hayward, California. Photographic service, United States Marine Corps.

SCHULER, MELVIN ALBERT, JR., M.F.A.

ASSISTANT PROFESSOR OF ART

B.A. Ed. and M.F.A. California College of Arts and Crafts. Summer of art study in Mexico. Teacher of crafts California College of Arts and Crafts, and at Oakland Y. W. C. A. Teacher of drawing and painting Berkeley Adult Evening School. Murals in Longfellow Elementary School, Berkeley; United Brethren Church, Oakland, 1947 California State Fair, Sacramento. One-man exhibits in Oakland, Yuba City, and Arcata.

* Leave of absence, 1949-50.

- SHEPHERD, M. ROD, M.A.** ASSISTANT PROFESSOR OF SPEECH
A.B., M.A., University of Southern California. Staff Announcer, Columbia Broadcasting System Outlet. Information Education Specialist, U. S. Army Air Force.
- SHERMACK, F. GORDON, LL.B.** ASSISTANT PROFESSOR OF HISTORY
LL.B., University of Colorado; graduate work Claremont Graduate School; secondary school instructor; Phi Delta Kappa.
- SMITH, ARTHUR M., Ph.D.** ASSISTANT PROFESSOR OF CHEMISTRY
A.B., San Francisco State College; M.A., Ph. D., Stanford University. Research Assistant and instructor in Mathematics, Stanford University; instructor in Chemistry, Montana State University; industrial experience as Research Chemist; instructor, Kingsley Coaching School, Palo Alto, California.
- SPAID, STANLEY S., M.A.** ASSISTANT PROFESSOR OF HISTORY
A.B., M.A., University of Idaho; Graduate study, University of Oregon, University of Michigan, University of Wisconsin. Instructor in social studies, secondary schools; instructor in History and Political Science, Western State College of Colorado; teaching fellow, University of Oregon. Phi Beta Kappa.
- THOMPSON, SHIRLEY DUNCAN, M.A.** ASSISTANT PROFESSOR OF SOCIAL SCIENCES
A.B., University of California; M.A., University of Chicago, School of Social Service Administration; Consultant, Child Welfare Services, California Department of Social Welfare; Assistant Adviser, Bureau of Public Assistance, Social Security Administration, Washington, D. C.; Personal Service Director, American Red Cross, Overseas Service; Supervising Social Welfare Agent, California Department Social Welfare.
- TELONICHER, FRED, A.B.** ASSOCIATE PROFESSOR OF BIOLOGICAL SCIENCE
A.B., Fresno State College; graduate study, Stanford University; European travel.
- TSOUTSOUVAS, LOUIS S., M.B.A.** ASSISTANT PROFESSOR OF PHYSICAL EDUCATION
A.B., M.B.A., Stanford University; additional graduate study, Stanford University. Athletic coach and instructor in Business Administration, secondary schools, Ventura Junior College; assistant football coach, Stanford University.
- VAN DUZER, JOHN, M.A.** ASSISTANT PROFESSOR OF SPEECH AND DRAMA
A.B., Humboldt State College; M.A., University of Southern California; Study at Eastman School of Music, Rochester, New York; graduate study, Stanford University.
- WHITE, REGINALD LOUIS, Ed.D.** ASSOCIATE PROFESSOR OF ENGLISH
B.A., First Class Honors in English, University of London, England; M.A., Northwestern University; Ed.D., Stanford University. Instructor in English and French Clark's College, London, England; Instructor in English, Ridley College, Ontario, Canada; Director, Junior High School, Country Day School, Winnetka, Illinois; Teaching fellow, Summer Workshops of the Eight-Year Study, Chicago and Denver; Instructor in English, Stephens College, Columbia, Missouri; Principal, Peninsula School, Menlo Park, California; Director, Developmental Reading Program, Stanford University; Coordinator of Education and Counseling, California State Prison at San Quentin. Author: "Walt Whitman, Educator for Democracy."
- WOODCOCK, JESSIE TURNER** COMPTROLLER
Graduate, Humboldt State Teachers College. Postal clerk, bookkeeper.

PART-TIME INSTRUCTORS

- BARLOW, KATHRYN C., M.A.** ASSISTANT PROFESSOR OF SPANISH
A.B., M.A., Oberlin College; Certificate of Graduation, University of Bordeaux, France; graduate study, University of Wisconsin, University of Mexico, University of New Mexico. High school teaching in English; instructor in French and Spanish, Lincoln College and Oberlin College.
- DREYER, CHARLES J., A.B.** INSTRUCTOR IN INDUSTRIAL EDUCATION
A.B., University of California; California Special Credential in Vocational Arts.
- GRIFFITH, ESTHER BEED** INSTRUCTOR IN VIOLIN
Certificate in Theory and Violin, (4 years) Yale University School of Music. Studied violin under Richard Schliewen, Reginald Bland, Russell Keeney, and Hugo Kortschak; studied one year in Italy with Lena Fagioli; studied string ensemble with Emmeran Stoeber. Played with New Haven, San Diego, and Chicago Women's Symphony Orchestras.
- GURNEE, DUANE** ASSISTANT IN MUSIC
Private study of clarinet and saxophone under Antonio Raimondi, Achille Heynen, Pierre De Leye (Brussels, Belgium, Conservatory of Music), Dr. A. Szendrei, Mickey Gillette, Ronald Phillips, Franklin Stokes, and Glenn Johnston. Professional playing experience with Columbia Broadcasting System, National Broadcasting Company, and Tommy Tucker Orchestra.

THOMPSON, WOODROW

ASSISTANT IN BAND

Studied with Victor Kr ss of the San Francisco Symphony, Miles Serry of the Minneapolis Symphony, and Jaroslav Cimmera of Chicago. Toured with Ray Herbeck and played trombone with 438th Army Band while in service.

COLLEGE ELEMENTARY SCHOOL

HARRY E. GRIFFITH, Principal and Director of Elementary Education

HAGNE, HAZEL, A.B.

SUPERVISING TEACHER

A.B., Humboldt State College; graduate study, University of California and Columbia University.

HANLEY, ROBERT E.

SUPERVISING TEACHER

University of Nevada, University of Buffalo, Humboldt State College; Elementary teacher.

* HAYES, SUSAN W., A.B.

SUPERVISING TEACHER

A.B., Humboldt State College; additional study, Oregon State College; elementary teacher.

HENRY, LUCILLE, A.B.

SUPERVISING TEACHER

A.B., University of California at Los Angeles; elementary teacher.

KELLENBERGER, ELEANOR, A.B.

ASSISTANT SUPERVISOR

A.B., Humboldt State College; graduate study, University of California at Los Angeles.

MACPHERSON, HELEN C., A.B.

SUPERVISING TEACHER

A.B., George Peabody College; elementary teacher.

NORTON, EMMA

SUPERVISING TEACHER

Humboldt State College; elementary teacher.

TELONICHER, MARGARET

SUPERVISING TEACHER

A.B., Humboldt State College.

* On leave of absence, 1949-50.

INDEX

- A.B. Degree (see Bachelor of Arts degree)
- Academic calendar, 4
- Academic honors (see Scholastic honors)
- Academic regulations, 27
- A cappella choir, 18
- Accounting courses, 137, 139, 140
- Accredited, 25
- Activities, 15, 16
- Administration credentials, 62
- Administrative officer, 147
- Admission to the College, 23-26
- Adolescence, Psychology of, 143
- Advanced standing (see Admission to the College)
- Advisers, 19
- Agriculture, 43
- Agricultural Economics, 43
- Animal Science, 43
- Plant Science, 43
- Algebra, 39, 122
- Allied Arts, 64
- Alpha Psi Omega, 15
- Alumni Association, 21
- American Government, 39, 141
- Required of A.B. Degree candidates, 39
- Anatomy, 116
- Annette Parton Johnson Scholarship, 33
- Anthropology, 114
- Applied Psychology, 143
- Aptitude Test (see College Aptitude Test)
- Arcata Kiwanis Award, 36
- Arcata Rotary Club Scholarship, 33
- Art, 65
- A.B. Degree in, 65
- Description of courses, 67
- General Secondary Credential in, 65
- Major and minor, 67
- Special Secondary Credential in, 65
- Arts and Sciences, 64
- Associate of Arts (University of California), 42
- Associated Business Girls Award, 34
- Associated Students, 15
- Associated Women Students, 15
- Athletics, 16
- Auditors, 31
- Auditing, course in, 139
- Audio-Visual Education, 61
- Awards (see Scholarships and Monetary awards)
- BACHELOR of Arts degrees, 38
- General requirements, 39
- Bachelor of Science Degree, 39
- General requirements, 39
- Bacteriology course, 114
- Band, 82
- Biology courses, 114
- Major, 110
- Minor, 113
- Board of Control of Student Body, 15
- Bookstore, 15
- Botany courses, 115
- Major, 114
- Minor, 113
- Breeding pens, 10
- Buildings, 10, 11
- Business Administration
- A.B. Degree, in, 128
- Description of courses, 136
- Major, 128
- Minor, 132
- Business and Professional Women's loan, 37
- Business education curriculum, 128
- CALENDAR 1948-49, 3
- Academic calendar, 4
- California, history of, 134
- California Congress of Parents and Teachers Scholarship, 35
- Chemistry, 119
- Chi Sigma Epsilon, 15, 33, 34, 36
- Community Relations, 21
- Community Service, 21
- Cost Accounting, 139
- Counseling, 19
- Course numbering, 49
- Course of Instruction, 49
- (See also listing in Table of Contents)
- Explanatory note, 49
- Craig scholarships, 34
- Creative writing award, 36
- Credentials, 38, 52-59, 63, 65, 70, 77, 83, 91, 101, 110, 126
- Administration and supervision, 62
- Combinations of, 56
- Elementary, curriculum for, 54
- General requirements, 53
- General statement, 52
- Junior high school, curriculum for, 54
- Kindergarten-Primary, curriculum for, 54
- Residence requirement, 39, 53
- Secondary General, 57, 65, 77, 83, 91, 101, 110, 124
- Special Secondary in
- Art, 65
- Home Economics, 70
- Music, 77
- Physical Education, 91
- Curricula, 37
- Degree, 37
- Lower Division, 42, 47, 66, 73, 92, 130
- DEAN of
- Arts and Sciences, 48
- Education, 48
- Students, 48
- Degree curricula classified, 38
- Bachelor of Arts, 38
- Art, 65
- Biological Sciences, 110
- Botany, 110
- Business Administration, 128
- Business Education, 128
- Economics, 126
- Education, 52-63
- English, 101
- Fisheries, 112
- General requirements for, 39
- Group major, 145
- History, 126
- Home Economics, 70
- Music, 77
- Physical Education, 91
- Pre-Medical Sciences, 110
- Secretarial Science, 128
- Social Sciences, 126
- Social Service, 126
- Speech, 83
- Speech-English, 83
- Speech and Dramatics, 83
- Speech-Radio, 83
- Wildlife Management, 112
- Zoology, 110
- Degrees (see Bachelor of Arts, degree curricula)

- Directory of personnel, 146
- Disqualification from College, 30
- Divisions, 49
 - Fine and Applied Arts, 64
 - Health and Physical Education, 90
 - Language and Literature, 101
 - Natural Sciences, 109
 - Social Sciences, 124
- Divisional chairman, 147
- Drafting, 73
- Dormitory, 10, 12, 13, 14
- Dramatics (see Speech and Dramatics)
 - Dramatic activities, 18
 - Dramatic workshop, 18, 86
 - Dramatics fraternity (see Alpha Psi Omega)
- ECONOMICS
 - A. B. Degree in Economics, 126
 - Description of courses, 135
 - Major, 126
 - Minor, 131
- Education, 52-63
 - Description of courses, 58
 - (See also Credentials)
- Electronics, 120
- Elementary Credential (see Credentials)
- Employment service, 32
 - (See also Placement service)
- Engineering: courses, 120
- English, 101
 - A. B. Degree in, 101
 - Description of courses, 104
 - Major, 101
 - Minor, 103
- Enrollment in classes (see Class enrollment)
- In the college (see Registration)
- Eureka Newspapers Award in Journalism, 36
- Executive Committee of Student Body, 15
- Expenses (see Living accommodations, Fees)
- Extension courses, 21
- Extension credit, 29-30, 63
- FACULTY committees, 148
- Faculty personnel, 149
- Faculty Women's gift, 36
- Far Western Conference, 17
- Fees: occasional, required, student body, summer session, 31, 32
- Fine and Applied Arts, 64
- Fish hatchery, 10
- Fisheries
 - B. S. Degree in, 112
 - Description of courses, 117
 - Major, 112
- Foreign languages (see Modern languages)
- French, 107
- Freshmen Assemblies, 4-5
- Fundamentals: Teacher Training, 53
- GI Wives Club, 15
- General major (see Group major)
- General Regulations (see Academic Regulations)
- General Secondary Credentials, 38, 57
- Geography courses, 140
- Geology course, 120
- Geometry (Plane), 39, 122
- Glaser, Bell W., Scholarship, 34
- Glee clubs (see College Chorus)
- Grades, 27
- Graduate Nurses, 98
- Graduation honors, 33
- Graduation requirements (see Bachelor of Arts, Bachelor of Education)
- Group major, 64, 145
- Gymnasium, 10
- HATCHERY (see Fish hatchery)
- Health and Hygiene, 98
 - Description of courses, 99
 - Junior high school major, 99
 - Minor, 99
- Health examination, 19
- Service, 19
- Henry F. Brizard Memorial Scholarships, 34, 35
- Hispanic America, course in, 133
- History, 126, 132
 - A. B. Degree in, 126
 - Description of courses, 132
 - Junior high school major, 131
 - Minor, 131, 132
- Home Economics, 70
 - A. B. Degree in, 70
 - Description of courses, 71
 - Junior high school major, 71
 - Minor, 71
 - Special Secondary Credentials in, 70
- Honor points, 28
- Honors (see Scholastic honors)
- Hospitalization, 19, 31
- Housing, 14
- Humboldt County Federation of Women's Clubs scholarships, 35
- Humboldt State College Improvement Association, 147
- Humboldt State Ski Club, 15
- Hygiene (see Health and Hygiene)
- ICHTHYOLOGY, 117
- Index of Scholarship (see Scholarship index)
- Industrial Education, 73
 - Description of courses, 74
 - Junior high school major, 74
 - Minor, 74
- International Relations, 141
- Intramural Sports, 17
- Iowa Silent Reading Test, 4, 5
- JOHNSON, Annette Parton, Scholarship, 33
- Journalism, 103, 106
- Junior High School Credential (see Credentials)
- Junior High School majors
 - Art, 67
 - Home Economics, 71
 - Industrial Education, 74
 - Mathematics, 121
 - Music, 79
 - Speech and Dramatics, 85
 - Physical Education, 93
 - Health and Hygiene, 99
 - English, 103
 - Biology, 113
 - Economics, 131
 - History, 131
 - Social Sciences, 131
- KINDERGARTEN-Primary Credential (see Credentials)
- Kiwanis Club Award (see Arcata Kiwanis Club Award)
- Kramer Memorial Scholarship, 35
- Kuder Vocational Preference Test, 4, 5
- LANGUAGES (see Modern Languages)
- Language and Literature, Division of, 101
- Latin-American Relations, 141
- Legal Aspects of Education, 59
- Library, 11
- Librarianship, 45
- Living accommodations, 14
- Loan funds, 36
- Location of the College, 10
- Lower division courses, 42, 49
- Lower division curricula (see Curricula)
 - Agriculture, 43
 - Drafting, 73
 - Journalism, 103
 - Photography, 66
 - Pre-Agriculture, 43
 - Pre-Architecture, 44
 - Pre-Dental, 44
 - Pre-Engineering, 44
 - Pre-Forestry, 45
 - Pre-Legal, 45
 - Pre-Library Science, 45
 - Pre-Mortuary Science, 46
 - Pre-Nursing, 98
 - Pre-Optometry, 46
 - Pre-Pharmacy, 46
 - Pre-Veterinary, 47
 - Recreational Leadership, 92
 - Secretarial Training, 130
 - "Lumberjack," 16

- MAHAN Scholarships, 35
- Majors, defined and listed, 40
- Marking system, 27
- Mathematics, 121
 - Description of courses, 122
 - Minor, 121
- Matriculation from high school
 - (see Admission to the College)
 - To other institutions (see Transfer to other institutions)
- Men's Athletics, 17
- Meteorology course, 120
- Military Service, credit for, 24
- Minors, defined and listed, 40, 41
- Miscellaneous Awards, 36
- Modern Dance Group, 15
- Modern languages, 107
 - Description of courses, 107
 - Minors, 107
- Mu Epsilon Psi, 16
- Music, 77
 - A.B. Degree in, 77
 - Activities, 18, 82
 - Description of courses, 80
 - Majors, 77, 79
 - Minors, 79
 - Private Lessons, 83
 - Scholarships, 34, 35
 - General Secondary Credential, 77
 - Special Secondary Credential in, 77
- Musical organizations, 18, 82
 - A cappella choir, 82
 - Band, 82
 - College chorus, 82
 - Orchestral, 82
- Musicians' Union Scholarship, 35
- NATURAL sciences, 109
- Nelson Hall, 11, 12, 14
- Newman Club, 16
- Normal program, 28
- Note to prospective student, 8-9
- Numbering of courses (see Explanatory note)
- Nursing (see Pre-Nursing and Graduate Nurses)
- Nutrition, courses in, 72
- OBJECTIVES, 64, 90, 101, 109, 124
- Officers and assistants, 147
- Official Directory (see Directory of Personnel)
- Ohio Psychological Examination, 4, 15
- Orchestra, 82
- Orientation, 63
- Organization of College, 48
- P. T. A. Scholarships, 35
- Personnel (see Directory of Personnel)
- Phi Beta Kappa medal, 36
- Philosophy course, 140
- Photography courses, 68
 - Two-year terminal curriculum, 65
- Physical Education, 91
 - A.B. Degree in, 91
 - Club, 16
 - Description of courses, 93
 - Major, 90, 93
 - Minor, 93
- Physical education credential (see Credentials)
- Physical examination (see Health Examination)
- Physical science courses, 119
- Physics courses, 119
- Physiology course, 116
- Placement service, 21
- Play Writing, 87, 88
- Political science courses, 141
- Practice teaching (see Student teaching)
- Pre-Professional courses (see Lower Division Curricula)
- Pre-Medical Curriculum, 110
- Pre-Nursing Program, 98
- Pre-Nursing Scholarship, 33
- Private lessons (music), 83
- Probation, 30
 - Program, Changes of, 29
 - (See also Normal program)
 - Psychology courses, 142
 - Publications, Student, 16
 - QUANTITATIVE Analysis course, 119
 - Quota Club Scholarship, 35
 - RADIO
 - A.B. Degree in, 83
 - Courses, 88
 - Programs, 18, 19
 - Recreation, 16-18
 - Recreational Leadership, 92
 - Redwood Hall, 14
 - Refunds, 32
 - Registration in classes (see Class enrollment)
 - In the College, 26
 - Regulations (see Academic regulations)
 - Reports to students, 29
 - Residence requirements, 39, 53, 63
 - Rho Sigma, 16, 33
 - Rotary Club loan fund, 36
 - Rotary Club Scholarship, 33
 - SCHEDULE of classes, 50
 - Scholarship index, 28
 - For credential candidates, 54
 - For degree candidates, 41
 - For students transferring to Humboldt, 24
 - (See also Probation and Disqualification)
 - Scholarship reports (see Reports to students)
 - Scholarships and monetary awards, 33
 - Scholastic honors, 33
 - Science (see Natural sciences)
 - Secondary Credential (see General Secondary Credential)
 - Secretarial Science
 - A.B. Degree in, 128
 - Major, 128
 - Secretarial Training curriculum, 130
 - Self help (see Student employment service)
 - Semester honors, 28
 - Semester unit (see Unit of credit)
 - "Sempervirens," 16
 - Sequoia Music Club Loans, 36
 - Ski club (see Humboldt State Ski Club)
 - Social-Economic Reform Movements course, 135
 - Social life, 16
 - Social Sciences, 126
 - A.B. Degrees in, 124, 126
 - Description of courses, 133
 - Majors, 124, 126, 131
 - Minors, 131
 - Social Service Curriculum, 126
 - Societies, 15, 16
 - Sociology Courses, 143
 - South Fork P. T. A. Scholarship, 35
 - Spanish, 107
 - Special Secondary Credentials in Art, 65
 - Home Economics, 70
 - Music, 77
 - Physical Education, 91
 - Speech Correction, 64, 85
 - Speech and Dramatics, 83
 - A.B. Degrees in, 83
 - Description of courses, 86
 - Majors, 83, 85
 - Minors, 85
 - Speech-English, 83
 - A.B. Degree in, 83
 - Speech-Radio, 83
 - A.B. Degree in, 83
 - Speech Clinic, 87
 - Speech Correction, 89
 - Sports (see Athletics and Recreation)
 - State Board of Education, 146
 - Student activities (see Clubs and societies, Athletics)
 - Government, 15
 - Life, 14-20
 - Programs (see Normal program)

- Student body fees, 31
- Student Body Government, 15
- Student organizations (see Clubs and societies)
- Student Teachers Club, 16
- Student Teaching, 61
- Subject A, 25
- Summary of expenses, 32
- Summer session, 26, 31
- Supervision Credential, 62
- TABLE of Contents, 6-7
- Testing Program, 19
- Transfer to other institutions, 25
- Trustees, 12
- UNIT of credit, 27
- Upper division courses, 49
- U. S. History, 39, 133, 134
 - Required of all Degree Candidates, 39
- VARSITY Hall, 10, 14
- Veterans, 20
- Veterans' Administration, 20
- Veterans' Educational Institute, 23
- Vocational Rehabilitation, 35
- WILDLIFE management courses, 116
 - A. B. Degree in, 112
- Withdrawal from college, 29
 - From courses, 29
- Women's Athletic Association, 16
- Women's Athletics (see Intramural sports)
- YEAR book (see "Sempervirens")
- Year course, 49
- ZETA Eta Scholarship, 36
- Zoology courses, 118
 - Major in, 110
 - Minor, 113

CIRCULAR OF INFORMATION

FOR THE YEAR 1950-51

HUMBOLDT STATE COLLEGE

ARCATA, CALIFORNIA

A FIVE-YEAR COLLEGE

ACCREDITED BY THE NORTHWEST ASSOCIATION OF SECONDARY AND HIGHER SCHOOLS,
THE UNIVERSITY OF CALIFORNIA, AND THE STATE DEPARTMENT OF EDUCATION;
MEMBER, WESTERN COLLEGES ASSOCIATION

STATE COLLEGES OF CALIFORNIA

California Polytechnic College.....	San Luis Obispo
Chico State College.....	Chico
Fresno State College.....	Fresno
Humboldt State College.....	Arcata
Los Angeles State College of Applied Arts and Sciences.....	Los Angeles
Los Angeles-Orange County State College.....	Long Beach
Sacramento State College.....	Sacramento
San Diego State College.....	San Diego
San Francisco State College.....	San Francisco
San Jose State College.....	San Jose

Vol. XXXV, No. 2

JUNE 1, 1950

THE LIBRARY OF THE

SEP 3 - 1951

UNIVERSITY OF CALIFORNIA



ADMINISTRATION BUILDING

ACADEMIC CALENDAR—1950-51

FALL SEMESTER, 1950

August 18th-----Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.

Orientation and Personnel Tests-----Thursday and Friday, September 7th and 8th
(Entering freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on September 7th in the College Auditorium.)

Program Counseling

Former students-----September 7th and 8th

Freshmen and new students-----September 11th

Registration Period-----Monday and Tuesday, September 11th and 12th

	<i>Monday</i>	<i>Tuesday</i>
	<i>Former students</i>	<i>New students</i>
9.00-10.30 Surnames beginning with-----	A-E	A-E
10.30-12.00 Surnames beginning with-----	F-L	F-L
1.00- 2.30 Surnames beginning with-----	M-R	M-R
2.30- 4.00 Surnames beginning with-----	S-Z	S-Z

Instruction Begins-----Wednesday, September 13th

Last Day for Program Changes-----Friday, October 6th

Last Day for Filing Applications for
Degrees and/or Credentials-----Friday, October 13th

Mid-term Warning Notices-----Friday, November 10th

Thanksgiving Holidays-----Thursday, November 23d, through Sunday,
November 26th

Christmas Holidays-----Saturday, December 16th, through Monday,
January 1st

Semester Examinations-----Thursday, Friday, Saturday, Monday and Tuesday,
January 18th through January 23d

Closing Date for Semester-----Tuesday, January 23d

NOTE: No new student can be approved for admission unless his transcripts are all on file in proper order, nor may he register until he has taken the personnel tests scheduled above. Students who fail to take the tests and register at the appointed time will be assessed penalty fees totaling \$4 for late registration and testing service.

Veterans who have no letter of eligibility will be required to pay their own fees, pending receipt of authorization.

SPRING SEMESTER, 1951

January 5th	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.	
Orientation and Personnel Tests	Tuesday and Wednesday, January 30th and 31st (Entering freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on January 30th in Room 136.)	
Program Counseling		
Former students	January 31st	
Freshmen and new students	February 1st	
Registration Period	Thursday and Friday, February 1st and 2d	
	<i>Thursday</i>	<i>Friday</i>
	<i>Former students</i>	<i>New students</i>
9.00-10.30 Surnames beginning with	A-E	A-E
10.30-12.00 Surnames beginning with	F-L	F-L
1.00- 2.30 Surnames beginning with	M-R	M-R
2.30- 4.00 Surnames beginning with	S-Z	S-Z
Instruction Begins	Monday, February 5th	
Last Day for Program Changes	Friday, March 2d	
Easter Holidays	Saturday, March 17th, through Sunday, March 25th	
Mid-term Warning Notices	Friday, April 6th	
Memorial Day	Wednesday, May 30th	
Semester Examinations	Thursday, Friday, Saturday, Monday and Tuesday, May 31st through June 5th	
Commencement	June 8th	

SUMMER SESSION, 1951

(Tentative dates)

June 18th-July 27th

POST SESSION

July 30th-August 24th

TABLE OF CONTENTS

	Page
CALENDAR	
Academic -----	4
TABLE OF CONTENTS -----	6
NOTE TO THE PROSPECTIVE STUDENT	
A Word about the College -----	8
A Word about this Catalog -----	8
THE COLLEGE	
Location -----	10
Physical Equipment -----	10
Historical Note -----	11
STUDENT LIFE	
Living Accommodations -----	13
Student Organizations -----	14
Counseling and Guidance -----	15
Health Service -----	16
Veterans' Service -----	16
COMMUNITY RELATIONS	
Placement Service -----	17
Community Service -----	17
The Alumni Association -----	17
ADMISSION TO THE COLLEGE	
Requirements for Admission -----	19
Admission with Advanced Standing -----	20
Admission to the Graduate Division -----	21
Transfer to Other Institutions -----	21
Subject A -----	21
College Aptitude Test -----	21
Registration -----	22
Summer Session -----	22
ACADEMIC REGULATIONS	
Unit of Credit -----	23
Classification of Students -----	23
Marking System -----	23
Normal Program -----	24
Class Enrollment and Attendance -----	25
Changes of Program -----	25
Auditors -----	25
Credit by Extension -----	25
Probation and Disqualification -----	26
FEEES AND EXPENSES	
Fees -----	27
Refunds -----	28
Summary of Expenses for Regular Students -----	28
Student Employment Service -----	28

TABLE OF CONTENTS—Continued

	Page
HONORS, SCHOLARSHIPS AND LOANS	
Scholastic Honors	29
Honor Societies	29
Scholarships	29
Miscellaneous Awards	32
Loan Funds	32
DEGREES, CREDENTIALS AND CURRICULA	
General Statement	34
Requirements for the Master's Degree	35
Requirements for Bachelor's Degrees	37
Lower Division Curricula	40
COURSES OF INSTRUCTION	
Organization of the College	45
Explanatory Note	46
School of Education	48
School of Arts and Sciences	60
Division of Fine and Applied Arts	60
Art	61
Home Economics	67
Industrial Education	71
Music	75
Speech	82
Division of Health and Physical Education	89
Physical Education	89
Health and Hygiene	97
Division of Language and Literature	100
English	100
Journalism	102
Modern Languages	107
Division of Natural Sciences	109
Biological Sciences	116
Physical Sciences	121
Mathematics	125
Division of Social Sciences	127
History	136
Economics	139
Business Administration	141
Geography	144
Philosophy	145
Political Science	145
Psychology	146
Sociology	147
Group Major	149
DIRECTORY OF PERSONNEL	150
INDEX	157

NOTE TO THE PROSPECTIVE STUDENT

A WORD ABOUT THE COLLEGE

Humboldt State College offers the prospective student several advantages and attractions. It is a five-year college, whose courses are organized to meet a variety of educational needs. The basic studies in the liberal arts and sciences afford an opportunity for a cultural education. With some degree of specialization, these courses provide professional training in teaching, social service, business administration, and other fields. Also, they provide the background work which is required for many more highly specialized professions such as medicine, dentistry, or engineering.

The College also offers practical training programs in secretarial work, wild life management, fisheries, radio production, and other vocational fields.

Besides these educational facilities, the College affords a congenial dormitory life, an activity program (music, athletics, dramatics), in which all are encouraged to participate, and a natural environment that is unexcelled for scenery and opportunity for outdoor life. And lastly, though not least, the friendliness of the students, and the cordial relationship existing between faculty and students are factors that promote the happy adjustment of the new student.

In cooperation with federal and state agencies, Humboldt State College offers to veterans of World War II an opportunity to pursue an educational program under highly favorable circumstances. Those eligible to receive government aid should consult representatives of the Veterans Bureau and the college authorities regarding enrollment.

A WORD ABOUT THIS CATALOG

This catalog is your introduction to the purposes and work of Humboldt State College. In it we have sought to put all the information necessary for an understanding of the offerings of the College, its organization, and the way in which it functions. Careful study of it will enable you to follow the curricular requirements and regulations with a minimum of personal assistance.

Acquaintance with some matters may well be postponed until after you have become well established in the College, but you should familiarize yourself with certain parts of this catalog as soon as you have decided to enter the College, namely:

(1) *How you enter the College.* The requirements and procedure for matriculation in the College are explained in the section entitled "Admission to the College." The procedure for enrolling in classes is specified under "Academic Regulations."

(2) *College rules and regulations.* The rules and regulations applying to all students are found in the section "Academic Regulations." All students are held responsible for a knowledge of them. Those requirements referring to particular curricula are found under "Degrees, Credentials, and Curricula."

(3) *Your course of study.* You will find the various curricula outlined under "Degrees, Credentials, and Curricula." Detailed information is given under the various divisions in the section "Courses of Instruction." A system of cross references to pages in both sections should enable you to find your information readily. The explanatory note at the beginning of the section "Courses of Instruction" is called to your attention.

(4) *Your expenses.* Expenses and fees charged by the College and the student body are listed under "Fees and Expenses." They are payable at the time of registration (except in the case of veterans registering under a government program). Living arrangements are discussed under "Student Life." In the next section, you will also find information regarding scholarships and loans that are available; directions for seeking employment are given under "Fees and Expenses."

If you have questions, please feel free to communicate with the Registrar of the College or, if you can, visit us personally.

Meanwhile, we invite you to come to Humboldt and hope we can welcome you here when the new semester opens.

THE PRESIDENT AND FACULTY OF HUMBOLDT STATE COLLEGE

THE COLLEGE

LOCATION

Humboldt State College is located in the town of Arcata, which is situated on the north shore of Humboldt Bay in Northern California. Backed by high, forested hills, the College occupies a conspicuous position on the top of a hill, about a mile from the center of town. It commands an unrestricted panorama of forested mountains, bay, dairy and farm lands, sand dunes, Pacific Ocean, and at night the lights of Arcata, Eureka, and Samoa.

Arcata, the first town to be established in northwestern California, is located on the famous Redwood Highway eight miles north of Eureka and 300 miles north of San Francisco. It is reached by the Northwestern Pacific Railroad, Pacific Greyhound Lines, and by Southwest and United Air Lines. It has a population of over 3,800. Lumbering, box manufacturing, and dairying form the basis of the business life of the community. Eureka nearby is a thriving city of about 20,000 people. It is the county seat of Humboldt County and is the site of woolen mills and several lumber mills. About 50 miles south of Eureka is Cape Mendocino, the westernmost point of the mainland of California.

The climate of the Humboldt Bay region, though moist, is stimulating and equable, the extremes of heat and cold being absent. Summer and fall are particularly delightful seasons.

PHYSICAL EQUIPMENT

Campus and Buildings

The physical plant of the College comprises a compact group of buildings and athletic facilities, appropriately landscaped. The main building, a rectangular two-story structure surrounding an inner court, houses the administrative offices, faculty offices, classrooms, library, social unit, and auditorium. Adjacent to the main building are the original normal school buildings, used today for a variety of purposes. In the rear are a modern gymnasium and stadium, with turf playing field and facilities for football, baseball, and track.

Back of the athletic field and gymnasium, the College owns a large tract of second-growth redwood forest, in which have been cut a number of trails and clearings for purposes of recreation and botanical study.

In front, across the street from the main building, are four tennis courts for the use of the students and faculty. A radio studio, a small greenhouse, a fish hatchery, and game-bird breeding pens have been provided for specialized class projects.

Jenkins Hall, a new and beautiful industrial arts building, will be utilized for the first time in 1950-51.

Campus housing includes Nelson Hall, a modern dormitory for women; Varsity Hall and Redwood Hall, for men students, and Humboldt Village, where married veterans are accommodated.

A number of pre-fabricated buildings have been erected on the campus to provide temporary facilities for laboratories, classrooms, offices and student activities.

Library

The library, situated off the south end of the inner court, contains some twenty-five thousand volumes. Though not large, this collection is well distributed as to subject matter, including recreational reading, and is constantly being enlarged. About two hundred eighty periodicals are received, almost two-thirds of which are scientific and professional and the rest of general interest. To supplement its holdings, the library draws upon the collection of the California State Library, the University of California Library and other research libraries with which inter-library loan service is maintained. The library needs of the College are thus adequately met.

College Elementary School

The College maintains an elementary school on the campus, a short distance from the main building. It is here, as well as in the schools of Eureka and Arcata, through the cooperation of their school authorities, that the student teaching by the teaching credential candidates is conducted.

The College Elementary School extends from the kindergarten through the eighth grade and is housed in a commodious and modern building of reinforced concrete. Fenced-in playfields are provided for the demonstration of a modern program of physical education.

Building Program

An extensive building program has been approved and construction is expected to begin soon upon new science and library buildings, which are the units first scheduled for construction. An auditorium, a women's gymnasium, swimming pool, and administration building, a student union and cafeteria building and a vocational arts building are tentatively approved for future construction, and additional property adjacent to the campus is being purchased by the State to provide for the planned expansion of the College. Funds have also been apportioned for the construction of dormitory buildings to house approximately one hundred thirty men. Temporarily, the Federal Government has allocated housing units and other facilities to better enable the College to meet the demands of the present emergency.

HISTORICAL NOTE

Humboldt State College is one of the ten California state colleges, which have developed out of the old state normal schools. The original Humboldt State Normal School was established in 1913 by an act of the Legislature. Actual instruction began on April 6, 1914, the first class sessions being held in the Arcata Grammar School under an agreement between the Board of Education of Arcata and the normal school authorities.

The fine site of the College was donated by William A. Preston and the Union Water Company, whose officers were Noah H. Falk, Len Yocom, Mrs. Arthur Way, and Mrs. Kate Harpst. By January, 1915, temporary wooden buildings were constructed and ready for occupancy. In 1917 the Legislature appropriated \$245,000 for the permanent main building, which has been in use since February, 1922.

The professional curriculum in teacher training originally required two years to complete. Gradually it was extended and broadened to include many of the liberal arts and the sciences, so that today at least four years must be spent to complete any teaching credential curriculum offered by the College.

In 1921, the Legislature changed all of the normal schools to State Teachers Colleges, and authorized the State Board of Education to grant the Bachelor of Arts Degree in Education. In 1935 the Legislature changed the name to Humboldt State College and authorized the granting by the College of the Bachelor of Arts Degree in the Liberal Arts. Thus the College now functions as a teacher training institution and as a regional, liberal arts college.

In 1947, the College received authorization to grant the General Secondary Credential. This authorization entailed a year of graduate study, so that the institution thus became a five-year college.

In 1949, the Bachelor of Science Degree was authorized, since it was better adapted to certain highly specialized curricula. Permission has also been given to the College to grant the Master of Arts Degree in the fields of Education and Social Science.

Since 1921, control of the institution has been vested in The State Department of Education.

STUDENT LIFE

LIVING ACCOMMODATIONS

Living quarters for students in attendance at the College are available in the college dormitories, Nelson Hall for women, Redwood Hall and Varsity Hall for men, which are operated under the general supervision of the Housing Manager. Nelson Hall is a beautiful modern building accommodating 70 women and includes the spacious dining commons of the campus. Redwood Hall houses 70 men comfortably: Varsity has a capacity of 15 and is conveniently near the main college building.

Two students are assigned to each room in Nelson and Redwood Halls, with reasonable rental rates charged, determined by the State. Bedding and towels and their laundering are provided by the dormitory. Students living in campus housing are required to purchase a monthly meal ticket for the dining commons at a reasonable rate: Allowance is made for regular absence over weekends and vacation periods.

Other students, faculty, and their guests are privileged to take meals at Nelson Hall Commons.

The semester cost for students living in college dormitories has been set at the following rates: Nelson Hall, \$75 per student, per semester; Redwood Hall, \$60 per student, per semester; Varsity Hall, \$54 per student, per semester. This amount is payable at registration: However, students may arrange with the Housing Manager to pay this amount in one to four installments.

The dormitories will open for the fall semester Wednesday, September 6, 1950. They will close Saturday, December 16, 1950, at noon, for the Christmas holidays. They will re-open on Monday, January 1, 1951. During the Easter holidays, Nelson Hall will close Saturday noon, March 17, 1951, and will re-open on Sunday, March 25, 1951. All dormitories will close June 9, 1951, re-opening just prior to the opening of the summer session. The campus dormitories are open to inspection by the authorized college administration at any time during the school year.

All lower division women students who do not commute daily to the campus, are expected to live in Nelson Hall, unless arrangements are made by the parents with the Dean of Women. It is advisable for upper division women to live in the dormitory if they are away from home.

Thirty housing units have been allocated for married veterans. These units comprise Humboldt Village, situated on the campus at a convenient distance from the central buildings. These are available at reasonable rates.

Application for admission to the dormitories and to the village should be made through the Office of Housing Manager. New women students who are not known personally by the faculty, *must accompany their housing application by two letters recommending the applicant's character and integrity.* These letters may be from teachers or friends who have a personal acquaintance with the applicant.

STUDENT ORGANIZATIONS

Participation in student activities, some of which carry college credit, is encouraged by the administration in the belief that such experiences may profitably supplement the student's academic program. The official organization of the student body is known as the Associated Students, providing opportunity for democratic self government. Student body membership is prerequisite to participation in any extracurricular activity sponsored by the Associated Students.

This organization sponsors the publication of the college newspaper, "The Lumberjack," and the yearbook, "The Semper Virens." It operates the Student Cooperative store, which handles textbooks and supplies and serves fountain lunches.

To recognize scholastic achievement, encourage particular interests, and afford recreation, the students have established a number of organizations which are authorized by and coordinated through the Associated Students. Among these organizations are the following:

Alpha Psi Omega (a National dramatics fraternity)	Newman Club
Associated Women Students	Physical Education Club
Chi Sigma Epsilon (local scholastic honor society)	Residence Hall Groups
The College "Y"	Rho Mu Chi (Radio Mike Club)
Home Economics Club	Rho Sigma (sophomore honor society)
Humboldt State College Ski Club	Student Teachers' Club
Humboldt Wives Club	Women's Athletic Association
Mu Epsilon Psi (music club)	Class organizations (Freshman, Sophomore, Junior, and Senior)

Social Life

The social atmosphere of Humboldt State College is planned to contribute both to the enjoyment of the students and to the development of social poise and gracious living. Numerous dances, teas, informal get-togethers and other social affairs are sponsored by various student organizations during the year. Special events are planned to welcome the new students.

Athletics and Recreation

A well-rounded program of activities in the field of athletics and recreation includes regularly organized classes in a variety of sports; scheduled intramural competition for both men and women; utilization of regional resources for individual or group recreation, such as fishing, skiing, swimming, and hiking in the redwoods or at the beach; and participation in intercollegiate football, basketball, baseball, track, and other sports. The college is a member of the Far Western Conference, and the regulations of the conference govern athletic eligibility.

The Division of Health and Physical Education requires all men and women participating in intercollegiate or intramural sports to pass a health examination each season.

Music, Dramatics, and Radio

In addition to the musical activities offered as part of the academic program of the college (including the college chorus, little symphony orchestra, band, and a cappella choir), the music department seeks to

enrich the musical background of all students through listening hours, sponsorship of a series of concerts in which noteworthy musicians of the West are presented under the auspices of Mu Epsilon Psi, and through cooperation with the Community Concert series, which makes available to students at reduced rates, concerts by noted artists.

Widespread opportunity for participation in dramatics is offered to the students through a varied calendar of events ranging from Shakespeare to modern one-act plays. Interest is further highlighted by the annual drama festival for the high school students of northern California, and by the annual interchange of plays with Chico and San Francisco State Colleges. The Dramatic Workshop provides experience in other arts and crafts of the theater: Scene design, stagecraft, lighting, and makeup.

The presentation of radio programs over the campus station, KHSC, and over the commercial radio stations in Eureka, KIEM and KHUM, provide practical experience for students interested in radio broadcasting. The college is a member of the Intercollegiate Broadcasting System of America.

COUNSELING AND GUIDANCE

The College maintains a program of counseling and guidance designed to aid the entering freshman in making a satisfactory adjustment and to afford an adequate follow-up program throughout his stay at Humboldt State College. Since many factors affect the academic progress of a student and his ultimate success in life, the guidance program is many-sided and every faculty member participates in some phase of the program. The activities of the various agencies are coordinated by the Dean of Students.

At the time of registration individual attention is given by the faculty program advisers, who are assigned on the basis of vocational objective or major field. A student is free to consult his adviser at all times concerning academic or personal problems. The academic success of his students is a matter of paramount concern to every instructor, and the policies of the College are geared to the attainment of high scholastic standards.

The College provides facilities for administering many types of standardized tests under the direction of the Testing Bureau. All students take the Ohio Psychological Examination (i.e., the college aptitude test), the Iowa Silent Reading Test, the Kuder Vocational Preference Test, and the Mental Health Analysis.

The Deans of Men and Women are available during the college year for interviews with all students concerning their problems, particularly freshmen and other new students. Several assemblies are held during the year for freshmen to promote adjustment to college life.

An excellent opportunity for group guidance and social living is provided through the college dormitories. The Head Residents administer the internal affairs of the dormitories, employing student government insofar as it seems feasible to do so.

HEALTH SERVICE

In order to safeguard the health of its students, the College engages a physician and a health director, and maintains a health service program. The college physician examines and counsels students on health problems. At least three medical examinations are given each student as follows:

- (1) At entrance (including a dental examination) ;
- (2) During the junior year ;
- (3) Before graduation.

Included in the Student Body fee is a charge of \$1.50, covering physical education, hospitalization, and health services.

Emergency treatment is given in case of accident or illness. Limited hospital service with special rates in the local hospital is available to students who make arrangements for such services through the Health Department.

VETERANS' SERVICE

For veterans, special counseling and guidance services are available. Several members of the faculty have served in the armed forces and all are interested in the returned veterans and their problems.

When the need for specialized guidance and counseling is apparent, such services may be scheduled with the Veterans Administration Advice and Guidance Section in San Francisco upon the signed application of the veteran. This applies to veterans who are enrolled under Public Law 346, as well as Public Law 16. A Veterans Administration Training Officer makes frequent, periodic visits to the College. Members of the counseling staff of the College are also available to assist any veteran in determining his vocational goal or in solving his personal problems.

COMMUNITY RELATIONS

PLACEMENT SERVICE

The College maintains a Placement Bureau both for the service of graduates of the College and of employers. It seeks to help graduates, both current and past, find the positions best suited to their abilities and training, and to assist employers by recommending to them the candidates best suited to the positions to be filled.

The placement of graduates in the business and wildlife fields is handled by the departments. They are alert to discover not only beginning positions for students, but to secure promotion for former students.

Students seeking positions as teachers will find it to their advantage to work through the Placement Bureau. This bureau assembles and furnishes to school officials information about the graduates of the College who hold teaching credentials.

Since the organization of the Placement Bureau over 20 years ago, more than 95 percent of all graduates who desired teaching positions have been placed. In recent years, this figure has frequently reached 100 percent. Humboldt graduates are teaching successfully in almost every county of the State.

COMMUNITY SERVICE

Inasmuch as the College is a state institution, its facilities, when not in use for college purposes, are available for use by the citizens of the State. It particularly welcomes conventions, conferences, and assemblies of educational or cultural nature. The College auditorium seats 350. Arrangements for the serving of meals in the dining commons should be made with the manager of Nelson Hall.

THE ALUMNI ASSOCIATION

Active in the support of college affairs is the Humboldt State Alumni Association. This organization seeks to perpetuate college friendships, to promote the interests of the College, to acquaint prospective students with the opportunities open to them at Humboldt State, and to support worth while projects that contribute to the progress of the College.

Graduates and former students who have completed at least 6 units of work are eligible to membership in the association which holds annual or semiannual meetings, and publishes an alumni quarterly.

Former students (prior to 1947) who are eligible for membership may obtain a life membership in the association by the payment of a fee of \$10. Under a plan approved by the Associated Students and incorporated into the constitution of the Alumni Association, students pay a fee of one dollar per semester, and upon graduation, are automatically life members of the association. Those who complete 30 units of work but

less than eight semesters may obtain life membership in the Association by paying the difference between their contributions and the total fee.

Officers of the association at present are:

Forrest Waters	President
William Inskip	Vice President
Mildred Sears	Secretary
Fred Hibler	Treasurer
Harvey Harper, Fred Slack	Directors
Joe Barkdull	Editor of "Alumnus"

ADMISSION TO THE COLLEGE

REQUIREMENTS FOR ADMISSION

High school graduates and other applicants possessing equivalent preparation may be admitted to a state college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, by evidence of good moral character and personal qualifications, and by a satisfactory score on a standard college aptitude tests. Regular matriculation will be granted only after the satisfactory completion of a full semester's program of study with records indicating probable success in the chosen curriculum.

Veterans honorably discharged following completion of three full months of service in the armed forces during the emergency created by World War II, and applicants over 21 years of age, who are not high school graduates and who do not possess equivalent preparation but whose score on a standard college aptitude test indicates ability to do satisfactory college work in the chosen curriculum, may be granted provisional admission as special students. Such persons may be granted full matriculation on the following conditions: (1) the removal of all deficiencies; (2) the completion of one full semester's satisfactory college work in the chosen curriculum.

The state law provides that veterans who lack but one semester of high school work for graduation may secure their high school diplomas upon application to the high school. Those who lack more than one year of high school work are advised to: (1) Apply military service credit toward the removal of high school deficiencies and receive diplomas if possible; or (2) take the high school Test of General Educational Development prepared by the U. S. Armed Forces Institute. A satisfactory score on this test is usually accepted as a basis for granting the high school diploma, but additional statutory requirements may sometimes be required. Veterans should consult their high school principals concerning these matters.

Veterans who wish to be admitted to the College under the so-called "G. I. Bill," Public Law 346, should submit an application for a Letter of Eligibility to the Veterans Administration together with a photostatic or certified copy of their discharges. When they receive the Letter of Eligibility they must present it to the College when they report for registration.

Veterans with 10 percent disability or more should consult the Veterans Administration regarding the possibility of enrolling under the Veterans Rehabilitation Act, Public Law 16.

The State of California also offers educational assistance to veterans under the Veterans' Educational Institute, with headquarters in Sacramento. The state aid program may be used either before or after the federal educational assistance has been used, but it can not be used concurrently.

Upon admission to college, all students are classified on the basis of the curricula chosen and their qualifications for undertaking such curricula. Approval for full matriculation shall be granted by the college faculty in accordance with State Board of Education regulations.

ADMISSION WITH ADVANCED STANDING

CREDIT FOR MILITARY SERVICE. Veterans who have served for a minimum of three months in the armed forces will receive credit in compliance with the recommendations of the American Council Guide to the Evaluation of Educational Experiences in the armed services. Wherever possible, this credit will be applied in satisfaction of specific requirements, but if this is not possible, it will be treated as unclassified, elective credit.

Veterans whose training included formal college work, (C. D. T., or A. S. T. P.), or who completed courses of college level under the U. S. Armed Forces Institute or other formally organized college classes should submit complete transcripts of record covering all such courses if they wish to receive credit for this work.

FROM OTHER COLLEGES. Applicants for admission who have completed work in any recognized institution of collegiate grade may be admitted and given advanced standing as determined by the proper authorities. These applicants must present transcripts of record showing satisfactory scholarship and honorable dismissal from the institution last attended. Credit toward the fulfillment of graduation requirements will be allowed only insofar as the courses satisfactorily completed meet the requirements of the basic course pattern of the curriculum to be followed in this College.

No credit is allowed for teaching or other practical experience. Specific requirements in certain departments may be waived, however, on the basis of previous experience. An exemption allowed for experience will not carry units of advanced standing nor diminish the number of units required for graduation.

Credits earned in nonaccredited colleges may be accepted as a basis for advanced standing only to the extent that the applicant can demonstrate to the satisfaction of the State College authorities that a satisfactory degree of proficiency has been attained in the courses in question.

FROM JUNIOR COLLEGES. Credits earned in accredited junior colleges will be evaluated by the State College in accordance with the following provisions:

1. Not more than 64 semester hours of work may be allowed for credit.
2. No credit may be allowed for professional courses in education.

SCHOLARSHIP AVERAGE. In the case of students transferring to this College from other institutions, the scholarship average at the previous institution will be included with the average made at this College.

ADMISSION TO THE GRADUATE DIVISION

Holders of bachelor's degrees from accredited institutions will be admitted to the graduate division upon presentation of proper transcripts. Admission to candidacy for the General Secondary Credential or for the Master of Arts Degree is contingent upon the satisfactory attainment of the personal and scholastic qualifications as prescribed in the regulations of the State Board of Education and the College.

TRANSFER TO OTHER INSTITUTIONS

Humboldt State College is accredited by the Northwest Association of Secondary and Higher Schools, by the University of California, and by the State Department of Education.

Holders of the A.B. or B.S. Degree from Humboldt State College are accepted for unconditional admission to the graduate school of the University of California at Berkeley upon presentation of transcripts of record. The amount of work to be taken for an advanced degree is determined when the student is interviewed at the University. This same procedure is applied to graduates of all universities and colleges. Accreditation by the State University implies similar acceptance by other institutions. Humboldt students transfer freely to other colleges, universities and professional schools.

All students intending to transfer to another institution should consult the requirements of the institution to which they intend to transfer and arrange their programs at Humboldt accordingly.

During the present emergency, many professional schools have introduced varied screening devices, so that admission is on a highly selective basis. Students who expect to transfer to these professional schools should acquaint themselves with prevailing standards in the particular fields to be pursued.

SUBJECT A

Students who enroll as freshmen at Humboldt State College are required to take the Subject A examination during the registration period. Those who pass the Subject A test with a satisfactory score enroll in English 1A, First-year Reading and Composition, during the first semester in college. Those who fail the examination are required to take Subject A, English Composition. Although credit is given for this Subject A course, these units may not apply toward the six units in English required for a Bachelor's Degree. The Subject A examination is a thorough test in English usage and composition.

All entering students except those who have passed the University of California Subject A examination or have passed a course in college composition in some other college are required to take this examination.

COLLEGE APTITUDE TEST

All new students are required to take the college aptitude test, which is given each semester.

REGISTRATION

Students should report for registration in compliance with the schedule announced in the calendar. A faculty adviser is assigned to each student according to the curriculum he selects. After a program has been approved by the adviser, the student completes his registration by the payment of fees and the filing of his registration and course cards.

The student's official study list is filed in the office of the Registrar. Since this list is the basis for official reports and records, the student must assume responsibility for keeping this list accurate at all times.

Prior to formal registration, conferences may be held with advisers or with the Registrar about suitable programs or course requirements.

New students, both freshmen and transfers, should make preliminary arrangements for registration and evaluation of transcripts before the opening of the semester. Transcripts of former work should be filed with the Registrar two weeks in advance.

Students who are unable to report for registration during the designated period must make special arrangements with the administration and the faculty concerned. A special fee of \$2 is collected for late registration.

SUMMER SESSION

Each year the College holds a summer session designed to meet the needs of (1) high school graduates prepared to enter college, (2) students and teachers working toward a degree or a teaching or administrative credential, (3) teachers who desire to take "refresher" courses or to acquaint themselves with modern educational philosophy and procedures, and (4) persons seeking cultural advantages or combined study and recreation in one of the most scenic regions of California.

Admission to the summer session does not necessarily guarantee admission to the regular session. For students with no previous college work, admission requirements for summer session are the same as for regular session. (See pages 19-20.)

A feature of the recent summer sessions has been a workshop in elementary education, which has proved to be of special interest to in-service teachers.

The Registrar will send the Summer Session Bulletin upon request.

ACADEMIC REGULATIONS

UNIT OF CREDIT

A semester unit represents quantitatively 54 clock hours of work. It is usually administered as one recitation hour per week for 18 weeks, with two hours of preparation for each recitation hour. It may be administered as three recitation hours per week for 18 weeks without outside preparation.

CLASSIFICATION OF STUDENTS

Students are classified in two ways in terms of number of units completed.

Students who have completed less than 60 units are classed as *lower division students*. Ordinarily they are allowed to enroll only in lower division courses (see page 46). Students who have completed 60 or more units are classed as *upper division students*. They may enroll in both lower and upper division courses.

A student's class is determined by the number of units completed, as follows:

Freshmen	Less than 30 units
Sophomores	30 to 59½ units
Juniors	60 to 89½ units
Seniors	90 or more units

During a given semester students registered for more than five units are classified as *regular* students. Students registered for five units or less are known as *limited* students.

MARKING SYSTEM

Grades

A five-grade marking system is used. The grades employed are defined as follows:

A	Excellent
B	Above Average
C	Average
D	Barely Passing
F	Failure

Plus (+) as given in certain courses means passed with a grade of "C" or better. Inc. means "incomplete," W "withdrawn."

"Incomplete" will be given to students who have been doing passing work and who, through no fault of their own, are unable (a) to take a final examination or (b) to complete certain class or laboratory work by the end of the semester. The grade is not given to students who are failing or who are dilatory. *The uncompleted work must be made up within the next year of residence, or the "Incomplete" automatically becomes a Failure.*

Honor Points

Each of the above grades carries honor points as follows:

A-----	3 per unit
B-----	2 per unit
C-----	1 per unit
D-----	0 per unit
F-----	0 per unit

No honor points are given for an "Incomplete" until the final grade is given. Neither units nor honor points are given for a course from which a student withdraws. Hence, marks of "Incomplete" or "W" have no effect upon the Scholarship Index.

Scholarship Index

The Scholarship Index is a device for rating a student's scholarship average. It is derived by dividing the total number of honor points earned by the total number of registered units. In computing the index, units are not included for courses that carry no honor points.

If a student repeats a course in which he has received grades of "D" or "F," he will receive the grade and honor points earned in the repeated course except that unit credit will be allowed only once for a course.

Unless otherwise specified, the term "Scholarship Index" refers to the cumulative rather than the semester index.

NORMAL PROGRAM

The normal program is 15 or 15½ semester units. First-semester freshmen should take from 12 to 15½ units, depending upon the results of their testing programs as evaluated in conference with their advisers. After the first semester, a program of 17 units may be approved upon petition to the Scholarship Committee, if the student has made an average of 1.50 in all work undertaken. A program of 18 units may be approved by the committee if the student's average is 2.00 or better.

According to the definition of a semester unit as given above, a program of 15 semester units means 45 hours of class and home work each week.

The approval of the Health Department is also required for students who register for 17 units or more.

Students who find it necessary to earn part or all of their expenses should not expect to carry a full program of class work. If a student is employed more than 15 hours a week, he must file a petition in the office of the Dean of Students if he wishes to carry more than 12 units.

Petitions for overloads should be filed prior to the deadline date for program changes.

A graduate student may take not more than 16 semester units. If his program contains three or more graduate courses, he should limit his program to 12 or 14 semester units.

In order to secure credit for their work students must have their programs approved by the faculty adviser.

CLASS ENROLLMENT AND ATTENDANCE

For each student who registers for a given class a course card is issued to the instructor. No student may be admitted to class unless the instructor has received his course card.

The College believes that regular and punctual class attendance is important to a high standard of work. Each instructor makes his own regulations regarding attendance requirements. Students finding it necessary to be absent from college should obtain the approval of the President's secretary. Freshmen who are absent because of illness should secure a health excuse from the Health Office and present it to each of their instructors.

Any member of the faculty may exclude from his course any student who has neglected the work of the course, or is discourteous, or persists in practices annoying to the instructor or the class.

CHANGES OF PROGRAM

Necessary program changes may be made during the first four weeks through the Registrar's office with the consent of the student's adviser. Thereafter no program changes may be made. Exceptional cases, however, may be referred to the Scholarship Committee.

AUDITORS

Audited classes must be counted as part of the student's regular load. Veterans who wish to count an audited course as part of the minimum load required for subsistence are required by the Veterans Administration to attend all class sessions and do all of the required work of the class except taking the final examination.

A student who registers as an auditor in a course may not subsequently petition for credit.

WITHDRAWAL FROM COLLEGE

Upon petition, an honorable dismissal may be granted to any student in good standing, provided arrangements have been made with the Registrar.

Students who withdraw after the first four weeks of any semester shall be given "W's" or "F's" depending on the quality of their work. During the last four weeks of the semester, students who have to drop out of college because of illness or other unavoidable circumstances may petition for "Incomplete" grades. This privilege shall be granted only to those whose work is of passing grade at the time of withdrawal.

Students who neglect to comply with these regulations shall have their courses automatically reported as "Failures."

REPORTS TO STUDENTS

At the end of the semester, reports are given to the students, the regular marking system being used.

Mid-semester reports are made to students doing unsatisfactory work. These reports are followed by conferences with the student's adviser, instructor, or the Dean of Men or Women.

CREDIT BY EXTENSION OR CORRESPONDENCE

Except as provided hereinafter, students regularly enrolled may be admitted to extension classes upon the approval of the student's adviser. In such cases the combined program shall be subject to the established load limitations for regular students. Faculty members may not offer extension courses to regularly enrolled students on an extension fee basis.

The maximum credit toward the minimum degree and credential requirements is set at 12 semester units of either extension or correspondence work, or any combination of both taken in a California State College or other reputable institution.

An exception to the above ruling is made in the case of returning service men who may receive credit for all extension and correspondence courses which they may have completed, provided the courses are of college caliber, and that the applicant meets the college entrance, residence, and pattern requirements for a degree. The College further reserves the right to administer examinations covering any or all such courses for which credit is asked.

Neither extension nor correspondence credits shall be counted toward the residence requirements.

PROBATION AND DISQUALIFICATION***Warning***

A student shall be placed on warning who has a grade point shortage on the total units attempted of *five* or less.

Probation

1. Any student who has a shortage of *six* or more grade points on the total units attempted shall be placed on probation.

2. Any student on warning who has failed to achieve a 1.00 index after two semesters shall be placed on probation.

Disqualification

1. As long as a student is on probation he must maintain an average of "C" in a program of 12 or more units for each semester. Failure to do so will result in disqualification.

2. Any student who fails to achieve a "D" average in a given semester shall be disqualified except in the case of students whose cumulative average at the end of the preceding semester is "C" or better. First semester freshmen may be reinstated immediately upon petition to the Admissions Committee, if there are mitigating circumstances.

Disqualified students may apply for readmission through the office of the Registrar after the lapse of one semester. They may reenter upon probation, and the second disqualification is final.

3. Any student whose personal conduct is unsatisfactory may be disqualified by administrative action at any time.

FEES AND EXPENSES

FEES

Regular Fees

Payable by students taking more than 5 units at the time of registration. These are all required by the State except as noted otherwise.

Registration fee—per semester	\$6 50
Materials and service fee—per semester	7 50

Student Body Fees

(Not a state fee)

Fee—per semester	\$12 50
Subscription to the <i>Sempervirens</i> (once a year only)	4 00
Installment on Alumni Life Membership—per semester	1 00
(The \$12.50 fee entitles the student to membership in the Associated Students, services of the Physical Education Department, Health and Hospitalization Services.)	

Diploma fee at graduation :

With leather portfolio	2 50
Without leather portfolio	1 00

Occasional Fees

Registration fee for students taking 5 semester units or less—per unit	\$2 50
Materials and service fee for students taking five units or less—per unit	75
Extension fee—per unit	6 00
Late registration fee—regular students only	2 00
State credential fee—paid directly to Registrar's office—each credential	4 00
Special examinations—each examination	1 00
Change of program fee (Limited to regular, or regular to limited, or reduction in limited)	50
Miscellaneous Penalty fee (failure to meet administrative appointment or deadline)	2 00
Studio Lessons \$1 to \$4 per lesson, payable at time of registration.	

Summer Session

Tuition Fee

Six weeks session :

4 semester units or more	\$36 00
Less than 4 semester units, per unit	9 00

Three or four weeks session :

3 or more units	24 00
Less than 3 units, per unit	9 00

Summer session lecture and recreation fund (not required by State)

4 weeks or more	50
Less than 4 weeks	25

Summer session health and physical education fee

4 weeks or more	50
Less than 4 weeks	25

Late Registration Fee

	2 00
(The late registration fee is due and payable by any student who registers after the first three days of the session. Registration day is counted as the first day of the session.)	

Auditors

Persons enrolled in college classes as auditors only are subject to the above fees in the same manner as those enrolled for credit.

REFUNDS

Students who find it necessary to withdraw from college may, under conditions prescribed by law, obtain a refund of tuition fees. Application for refund must be made not later than three weeks from the date of the student's registration. In case of illness, a duly authorized representative of the student may file the application for him. When a refund is granted, a charge of \$1.50 per semester is made to cover costs of registration. Students who wish to make application for a refund should consult the Comptroller for further information concerning the regulations which govern such procedure.

STUDENT BODY FEES. These fees are not refunded if a student has participated in any student body activity.

SUMMARY OF EXPENSES FOR REGULAR STUDENT

<i>Item</i>	<i>Total for semester</i>
Registration fee.....	\$6 50
Materials and service fee.....	7 50
Student organization expenses (Club dues, yearbook, hospitalization, physical education, alumni fees, etc.).....	25 00
Books, papers, and supplies (approximate).....	15 00 to 50 00
Subtotal	50 00 to 89 00
Board and room..... (per month \$60 to \$72)	278 00 to 325 00
Miscellaneous (Entertainment, laundry, cleaning, etc.).....	45 00 to 112 50
Total	377 00 to 526 50
Bus fare: Eureka-Arcata, \$6.50 per month.	

STUDENT EMPLOYMENT SERVICE

Opportunities for part-time employment are available for deserving students. The College employs as much student help as possible, particularly in the Commons, and for other types of work on the campus. The College also has requests for assistance for light housework, care of children, janitorial and clerical work. Application for employment should be made to the Dean of Students before registration.

For information in regard to loans and scholarships which are available, see page 29.

HONORS, SCHOLARSHIPS AND LOANS

SCHOLASTIC HONORS

GRADUATION HONORS are awarded to graduating students at Commencement, subject to the approval of the faculty, on the basis of their scholastic index achieved in their undergraduate work as follows:

Index 2.00-2.34 — with honor

Index 2.35-2.74 — with high honor

Index 2.75-3.00 — with highest honor

SEMESTER HONORS are given to all regular students who during a semester complete 12 or more units of work carrying a letter grade and who achieve a scholastic index of 2.00 with no *F*'s or *Incompletes*. These honors are announced at the Chi Sigma Epsilon honor assembly early in the following semester.

HONOR SOCIETIES

CHI SIGMA EPSILON is the upper division honor society, which elects members during the first part of each semester. High scholastic attainment, qualities of leadership, and high ideals of character form the basis of selection.

RHO SIGMA is a sophomore honor society, sponsored by Chi Sigma Epsilon, whose active members select them each semester from the sophomore class on the same basis as election to Chi Sigma Epsilon.

SCHOLARSHIPS

A number of scholarships in varying amounts have been set up by individuals and organizations to provide recognition and assistance for worthy students. Some are entrance scholarships to be awarded to high school seniors, and others are to be awarded to students already enrolled in college. Further information concerning the scholarships or the method of application may be obtained from the office of the Registrar.

THE ANNETTE PARTON JOHNSON PRE-NURSING SCHOLARSHIP. This annual award of \$50 commemorates the courage of Annette Parton Johnson, local nurse, who was credited with saving the lives of the patients in the old Trinity Hospital when it was destroyed by fire. The award was established by community agencies in appreciation of her service. It is open either to a high school graduate who will enroll in the pre-nursing course at Humboldt State College or to a college student already enrolled in that curriculum. High school students who are interested should submit transcripts of record and letters of recommendation from either the high school principal or the girl's adviser.

THE ARCATA ROTARY CLUB HONOR ENTRANCE SCHOLARSHIP. This annual scholarship of \$50 is offered by the Arcata Rotary Club to an outstanding graduate of Arcata Union High School who enrolls as a beginning freshman at Humboldt State College. Applicants must pre-

sent transcript evidence of high scholarship in the work taken during their last three years in high school, with not less than 10 recommending units from high school as a minimum scholarship requirement. They must also be recommended by the principal as persons of good character who, as high school students, have participated in school activities in a commendable manner.

THE ASSOCIATED BUSINESS GIRLS' SCHOLARSHIP. The Arcata Chapter of the Associated Business Girls awards a girl graduate of the Arcata Union High School a scholarship sufficient for the payment of all fees for the first year of the commercial course.

THE BELLE W. GLASER MUSIC SCHOLARSHIP. Miss Belle Dickson, formerly Assistant Professor of Education at Humboldt State College, has established this scholarship in honor of her aunt, Mrs. Belle W. Glaser, who was a prominent San Francisco musician. The purpose of the award is to provide a fund to encourage students who have demonstrated ability and interest in the field of music to continue their studies in this field. The award (\$50) is to be used either for tuition, fees, or for private music lessons. Any student with junior standing or higher, of satisfactory scholarship and character, is eligible to receive the award. Other things being equal, preference shall then be given on the basis of financial need.

THE CRAIG SCHOLARSHIPS. Two scholarships of \$100 each have been established by Miss Ann V. Craig, former member of the college faculty, in honor of her father and mother. The Edith R. Craig Scholarship is presented to a freshman student chosen at the end of his or her freshman year at the College. The John F. Craig Scholarship is presented to a sophomore student chosen at the end of his or her sophomore year at the College. Selection of the recipients is made by the Honors and Awards Committee from those students in the respective classes who have a scholarship index of 2.0 or better and who have participated actively and commendably in at least one extra-curricular activity. Other considerations being equal, preference is given to the students with the greatest financial need.

THE HENRY F. BRIZARD MEMORIAL SCHOLARSHIPS. Three honor scholarships have been established by Mrs. Henry F. Brizard, in memory of her husband, who was for many years an active friend of Humboldt State College. These scholarships were established to encourage deserving high school graduates to continue their studies, and students who have already demonstrated their ability at college to do advanced work, in the hope that such students, conformant to the ideals of Mr. Brizard, will render a valuable service to society.

The honor entrance scholarship (\$100) will be awarded to an Arcata Union High School graduate who presents evidence, by transcript, of high scholarship (at least 10 recommending units) in work taken during his last three years in high school, and is recommended by his principal as a person of good character.

An honor upper-division scholarship (\$150) will be awarded to a worthy student who has completed two years of work (60 semester units) at Humboldt State College with a scholarship index of not less than 2.0

(B average) and has participated commendably in at least one extra-curricular activity.

A special honor scholarship (\$100) will be awarded to a worthy student who has completed at least 30 semester units of work at Humboldt State College with an index of 1.50 or better, who has distinguished himself in any one special field, as music, drama, art, English, sciences, etc., and who has participated commendably in at least one extracurricular activity.

THE HUMBOLDT COUNTY FEDERATION OF WOMEN'S CLUBS SCHOLARSHIPS. Each year the Humboldt County Federation of Women's Clubs awards scholarships of \$50 each in voice and musical instruments. The music scholarships provide private instruction at the College. Recipients are determined by an annual contest at the College in the spring. They must be high school graduates of good standing and must major or minor at the College in the field in which the award is made.

THE KRAMER MEMORIAL SCHOLARSHIP. This award of \$200 is sponsored by the Humboldt County Medical Society in honor of Doctor Lowell G. Kramer, formerly of Fortuna, California, who lost his life in military service in World War II. It is to be awarded annually to an outstanding student in the field of pre-medical sciences.

THE LAURA P. MAHAN SCHOLARSHIPS. Four scholarships carrying stipends of \$160 each are available to Humboldt State College students each year under the terms of the will of Laura P. Mahan. Two of the scholarships are in the field of art, and two are open to other college students. The awards are limited to graduates of Humboldt County high schools and to bona fide residents of Humboldt County.

THE MUSICIANS' UNION, LOCAL 333, awards an annual scholarship of \$100 to an entering student with outstanding promise in music. The award may be applied toward general or specialized work in music or may be applied toward general college fees. The recipient should major or minor in music at Humboldt State College.

THE QUOTA CLUB SCHOLARSHIP. The Quota Club of Eureka has established a scholarship of \$100, to be awarded to an upper division woman who wishes to specialize in the education of the hard-of-hearing. This award is made in conformity with the international project of the Quota Clubs, which is to serve the hard-of-hearing, and also to stimulate interest in a type of educational service where there is a definite shortage of trained personnel. Satisfactory character and scholarship are considered, but special emphasis is placed upon the student's aptitude and personal qualifications for work with handicapped children. Application for the award should be made through the office of the Registrar.

THE SOUTH FORK P. T. A. SCHOLARSHIP. The Parent-Teacher Association of the South Fork Union High School awards a scholarship sufficient for fees and books to an outstanding and deserving graduate of that school who enrolls as a freshman student at Humboldt State College.

THE ZETA ETA SCHOLARSHIP IN ART. Zeta Eta Chapter of Beta Sigma Phi offers an annual scholarship of \$60 to a sophomore student

registered at Humboldt State College and majoring in Art. Eligibility will be determined by the Honors and Awards Committee upon the recommendation of the Art Department.

THE CALIFORNIA CONGRESS OF PARENTS AND TEACHERS SCHOLARSHIPS IN ELEMENTARY EDUCATION. To stimulate interest in elementary education, a number of \$300 scholarships have been provided by the California Congress of Parents and Teachers. These scholarships are available to senior students in high school or to college students enrolled in the general elementary teacher training program.

VOCATIONAL REHABILITATION. The Bureau of Vocational Rehabilitation, State Department of Education, offers its service to students who have an employment handicap resulting from physical disability of any kind. Included are vocational counseling, the payment of tuition and fees, and the provision of textbooks without charge.

MISCELLANEOUS AWARDS

ARCATA KIWANIS CLUB AWARD. The Arcata Kiwanis Club awards a \$10 prize each year to the Arcata High School graduate who has made the highest scholastic record at Humboldt during his freshman year.

CHI SIGMA EPSILON FRESHMAN AWARD. This award is presented each spring to the student who has made the highest scholastic record in the freshman class at Humboldt State College.

EUREKA NEWSPAPERS AWARD IN JOURNALISM. The Eureka Newspapers annually award a total of \$25 to the student or students contributing the best writing to the "Lumberjack."

FACULTY WOMEN'S GIFT. The Faculty Women's Club of the College presents a monetary gift to the graduating woman who has achieved the highest scholastic average during her four-year course at Humboldt State College.

LOAN FUNDS

GENERAL STUDENT LOAN FUND. A small loan fund is at the disposal of the College to assist worthy students in meeting their necessary expenses. It has been the policy to make this fund available only to senior students. Students needing financial assistance are advised to discuss their problems confidentially with the Dean of Women, or Dean of Men. Application for all loans should be made through the Comptroller.

SPECIAL STUDENT LOAN FUND. The faculty and certain organizations in Humboldt County have provided a special loan fund to assist worthy students in registration expenses. The student should file his application prior to registration. Rarely are loans made to new students.

JACKSON LOAN FUND. A bequest of five hundred dollars from the estate of Mrs. H. W. Jackson established a loan fund for deserving students studying music.

ROTARY CLUB LOAN FUNDS. The Rotary Clubs of Arcata and Eureka have established loan funds available for worthy students recommended by the President.

THE BUSINESS AND PROFESSIONAL WOMEN'S LOANS. The Business and Professional Women's Club of Eureka maintains a fund from which scholarships are awarded on a loan basis to women selected by the Club.

THE JAKE GIMBEL LOAN FOR GRADUATE STUDY. Men students at Humboldt State College who are working for the Master's Degree are eligible to apply for the loan of one thousand dollars made available through the trust fund established by the late Jake Gimbel, and administered through the Bank of America National Trust and Savings Association, of Los Angeles. The loan is repayable without interest during a ten-year period from the date of issuance. Details may be obtained from the Registrar.

DEGREES, CREDENTIALS AND CURRICULA

GENERAL STATEMENT

The work offered by the College falls principally into two groups: (1) Teacher education curricula, administered by the School of Education; and (2) Liberal Arts Curricula, administered by the School of Arts and Sciences. A more detailed outline is as follows:

I. Teacher Education Curricula

A. Graduate work leading to

1. The Master of Arts Degree with majors in:

Elementary Education (p. 36)	Administration and Supervision (p. 36)
Secondary Curriculum or Guidance (p. 36)	Social Sciences (p. 37)

2. The General Secondary Credential with majors in:

Art (p. 61)	Music (p. 75)
Business Education (p. 132)	Physical Education (p. 90)
English (p. 100)	Physical and General Science (p. 110)
Language Arts (p. 100)	Social Sciences (p. 128)
Life and General Science (p. 110)	Speech (p. 82)

3. Administration and Supervision Credentials as follows:

Elementary School Administration Credential (p. 58)
Elementary School Supervision Credential (p. 58)
Special Supervision Credential (p. 58)

B. Work leading to the A.B. Degree with the following credentials:

General Elementary Credential (p. 50)
General Junior High School Credential (p. 50)
Kindergarten-Primary Credential (p. 50)

Special Secondary Credentials in:

Art (p. 61)	Music (p. 75)
Business Education (p. 132)	Physical Education (p. 90)
Home Economics (p. 67)	Speech Correction (p. 84)

Combinations of the foregoing credentials may be arranged.

II. Liberal Arts Curricula

A. The A.B. Degree with majors in:

Allied Arts (p. 60)	Music (p. 75)
Art (p. 61)	Pre-medical Sciences (p. 112)
Biological Sciences (p. 112)	Secretarial Science (p. 132)
Botany (p. 112)	Social Sciences (p. 130)
Business Administration (p. 132)	Social Service (p. 130)
Economics (p. 130)	Speech and Dramatics or
English (p. 100)	Speech-Radio (p. 82)
History (p. 131)	Zoology (p. 112) and a
Home Economics (p. 67)	Group Major (p. 149)

B. The B.S. Degree with major in Wildlife Management (p. 114), Fisheries (p. 114), and Nursing (p. 97)

C. Lower Division curricula:

1. Terminal Vocational:	Photography (p. 63)
Drafting (p. 71)	Recreational Leadership (p. 91)
Journalism (p. 102)	Secretarial Training (p. 134)

2. Preparatory for transfer to other institutions (commonly designated as Pre-professional) :

Agriculture	Library Science
Architecture	Medicine
Dentistry	Mortuary Science
Engineering	Nursing
Forestry	Optometry
Law	Pharmacy
Letters and Science	Veterinary Science

Other terminal and pre-professional curricula may be arranged to fulfill specialized needs.

REQUIREMENTS FOR THE MASTER'S DEGREE

The College is authorized to confer the Master of Arts Degree upon qualified candidates who meet the specified requirements and who hold appropriate California teaching credentials. All programs are administered by the Graduate Study Committee of the College and further information may be obtained from the Chairman of the Committee.

General Requirements

1. A minimum of 30 semester units of upper division and graduate courses must be earned beyond the Bachelor's Degree.
2. At least 24 units of this credit must be earned in residence at Humboldt State College.
3. Not more than six units of credit may be transferred from another accredited graduate school.
4. Not more than six units of credit may be earned in extension or in directed teaching.
5. At least 10 semester units of strictly graduate courses must be included in the program.
6. At least two approved one-semester courses outside the field of Education must be included in the program.
7. A grade point average of B must be maintained in all work taken in the graduate program. No course with a grade below C may be applied.
8. An acceptable thesis or teaching project will be required, although at the discretion of the Graduate Study Committee, satisfactory performance on a final comprehensive examination may be substituted for this requirement.
9. All work offered for the degree must have been earned in the six-year period immediately preceding the completion of the requirements.
10. Admission to candidacy for the degree shall be at the discretion of the Graduate Study Committee, and shall be achieved at least four months before completion of the requirements.

Thesis

All candidates for the Master of Arts Degree in Education who do not substitute the comprehensive examination for the thesis or teaching project will include this course in their programs. Each candidate will be assigned to an adviser and will complete a thesis or teaching project under his direction. Theses must be read and approved for the Graduate Study Committee by members of the faculty appointed for this purpose. Interested candidates should consult the Dean of Professional Education concerning the writing of a thesis or teaching project.

Course Requirements

The following outlines are statements of the course requirements that have been tentatively agreed upon as a basis for evaluating qualifications of candidates for the degree. The record of each candidate will

be carefully considered in the light of these requirements, and such modifications in individual programs as are recommended by the student's adviser may be permitted with the approval of the Graduate Study Committee. All programs require a minimum of 30 units beyond the A.B. Degree.

I. Elementary Education

1. Prerequisites (or their equivalents) :

Educ. 113. Psychological and Social Foundations of Education	5 units
Elementary School Curriculum and Methods	5-10 units
2. Required for All Candidates

Educ. 224. History and Philosophy of Education	2 units
Educ. 230. Seminar in Elementary Education	2 units
Educ. 239. Advanced Elementary Curriculum	3 units
Educ. 265. Guidance in Education	2 units
Educ. 290. Thesis or acceptable project	3 units
Educ. 298. Master's Degree Seminar (Research Procedure)	2 units
Educ. 299. Special Problems in Education	2-4 units
Directed Electives outside Education	4-6 units
Directed Electives in Elementary Education	6-8 units

II. Secondary Education

1. Prerequisites (or their equivalents) :

Educ. 113. Psychological and Social Foundations of Education	5 units
Educ. 175. Core course in Secondary Education	5 units
2. Required for All Candidates

Educ. 215. Evaluation in Education	2 units
Educ. 224. History and Philosophy of Education	2 units
Educ. 275. Seminar in Secondary Education	2 units
Educ. 298. Master's Degree Seminar	2 units
3. A Major Emphasis in either A or B as follows:

A. Curriculum and Methods of Instruction in Major Teaching Field	
Educ. 212. Psychology of Adolescence	2 units
Educ. 290. Thesis or Teaching Project	3 units
Educ. 299. Special Problems or Field Work in Teaching Field	2-3 units
Directed electives in major teaching field	3-6 units
Directed electives	7-11 units
(Each candidate must have at least two courses outside Education)	
B. Pupil Personnel and Guidance	
Educ. 212. Psychology of Adolescence	2 units
Educ. 265. Guidance in Education	2 units
Educ. 290. Thesis or Teaching Project	3 units
Educ. 299. Special Problems or Field Work in Guidance	2-3 units
Directed electives	12-13 units
(Each candidate must have at least two courses outside Education)	

III. Educational Administration and Supervision

1. Prerequisite

Appropriate Teaching Credential

Teaching experience (At least two years of successful teaching experience must be verified.)
2. Required for All Candidates

Educ. 215. Evaluation in Education	2 units
Educ. 239. Advanced Elementary Curriculum	3 units
Educ. 265. Guidance in Education	2 units
Educ. 290. Thesis or approved project	3 units
Educ. 298. Master's Degree Seminar (Research Procedures)	2 units
Educ. 299. Special Problems in Administration or Supervision	2 units
Directed electives outside Education	4-6 units
3. Additional Requirements to qualify for Administration or Supervision Credential.

See page 58.

Appropriate modifications will be made in the program for students who already have an administration or supervisory credential.

IV. Social Sciences

1. Prerequisite	
Satisfactory evidence of preparation for the work proposed.	
2. Suggested Program	
Hist. 288A-288B. Seminar in California History (or equivalent year course)	6 units
Hist. 298. Master's Degree Seminar (Research Techniques) (Or acceptable equivalent in Historical Research)	2 units
Hist. 290. Thesis	3 units
Econ. 201A-201B. Development of Economic Thought (year course)	6 units
Directed Electives in Social Sciences	7 units
Directed Electives in Education	6 units

GENERAL REQUIREMENTS FOR THE BACHELOR'S DEGREE

All students who are candidates for the A.B. and B.S. Degrees † must comply with certain basic requirements established by the State Department of Education and the College. Additional requirements may be prescribed for a specific curriculum, but the requirements common to all degree curricula are as follows:

UNITS. For the A.B. Degree, a minimum of 120 units is necessary for graduation. For the B.S. Degree, the minimum is 128 units. Of these at least 40 units must be selected from Upper Division courses.

Candidates for the A.B. Degree alone must complete at least 60 semester units outside the major field. Candidates for teaching credentials except the General Secondary must complete at least 80 semester units outside the major field.

RESIDENCE. At least 24 of the 120 unit total must be completed at this College in residence. Six of the last 30 units taken for a degree must be taken *in residence* at the College.

SUBJECTS. All candidates for either degree must take:

* Elementary Algebra and Plane Geometry (if not taken in high school)

Social Sciences ----- 12 units

(Including the statutory requirement in U. S. history and constitution. See statement below.)

Eight of the 12 units required must be taken in the lower division. At the discretion of the division, one year of social science taken in the senior year of high school for which recommended grades were received may be substituted for three units of social science.

Courses applicable toward fulfillment of this requirement may be chosen from the following: economics, geography, history, political science, and sociology.

Natural Sciences ----- 12 units

Eight of the 12 units required must be taken in the lower division. At the discretion of the division, chemistry or physics taken in the senior year of high school for which recommended grades were received may be substituted for three units of biological or physical science.

English (in the lower division) ----- 6 units

Psychology (in the lower division) ----- 3 units

Physical Education ----- 2 units

Restricted Electives from philosophy, art, music, speech arts, foreign language, or literature (English 46A-B or 74A-B) ----- 6 units

† Detailed requirements for the B.S. Degree will be announced later.

* The requirements in Elementary Algebra and Plane Geometry may be fulfilled by passing an examination given by the Mathematics Department.

A physical education activity course is required each semester for all lower division students taking 12 units or more, unless excused by the chairman of the Division of Health and Physical Education.

A knowledge of the provisions and principles of the constitution of the United States and of American history is required of all candidates for a bachelor's degree. The requirement may be satisfied in one of the following ways:

- (1) By passing an examination in American government and American history.
- (2) By completing in the College the following courses:
 - (a) Political Science 51
 - (b) History 70
- (3) By presentation of a certificate of completion of an appropriate course or courses at another accredited collegiate institution.

All students are urged to meet the requirement by taking the examination.

MAJORS AND MINORS. Each candidate must complete one major and one minor.

A *major* is a sequence of courses arranged to provide concentration in a field of special interest to the student. The student should select his major field with care, in accordance with his interests and objectives. Although it is possible to transfer from one major field to another, it is usually done at the expense of time and units.

A distinction is made between a teaching major in connection with the Junior High School Credential (and designated as a Junior High School major) and the major completed by students interested in securing a General Secondary Credential, or an A.B. Degree in Liberal Arts without a teaching credential.

The Junior High School major is composed of not less than 24 units, at least 12 of which must be in the upper division, and is available in the following fields:

Art	Mathematics
Biological Sciences	Music
English	Physical Education
Health and Hygiene	Social Sciences
Home Economics	Speech and Dramatics
Industrial Education	

Students not interested in teaching may secure an A.B. Degree in one of the liberal arts curricula, completing a major in an appropriate field. A liberal arts major requires the completion of from 36 to 60 units of work, at least 24 units of which are in the upper division. These curricula provide a broad cultural and professional background for general education, business, government positions, law, medicine, church work, social service work, youth work, radio, or for graduate study or research.

The program for the candidates for a General Secondary program extends over a five-year span and requires the completion of a field major (e.g., social science) instead of a subject major (e.g., history). The major

includes the work of the graduate year, but for the A.B. Degree, which is normally granted at the end of the fourth year, a minimum of 36 units in the major field is required, at least 12 of which are in the upper division. A minimum of seven units is required for the bachelor's degree in professional courses in Education.

Candidates for the General Secondary Credential must also complete a minor in a teaching field commonly taught in the secondary schools, consisting of not less than 20 semester units, at least six of which must be in the upper division. As in the case of the major, part of the minor may also be completed in the graduate year, but for the A.B. Degree, the student must have completed a minimum of 12 units in his minor field, at least six of which are in the upper division. The pattern for the minor must be set up and approved by the department concerned at the beginning of the student's sophomore year.

Other candidates for degrees and credentials must complete a minor consisting of not less than 12 semester hours, at least six of which must be in the upper division.

In general, minors are designed to give breadth and background. In the curricula leading to teaching credentials they may serve the additional purpose of providing a second subject field in which the student may teach if necessary. Some combinations are better than others for transfer credit; some are better as teaching combinations. The future plans of the candidate will determine in part what is desirable to choose for minor fields.

Candidates for the General Secondary Credential may complete teaching minors in the following fields:

Art	Mathematics
Business Education	Music
English	Physical Education
Health Education	Physical Sciences
Home Economics	Social Studies
Industrial Education	Speech
Life Sciences	

Nonteaching minors are available in the following fields:

Accounting	Journalism
Art	Mathematics
Biology	Music, Vocal or
Botany	Instrumental
Business	Physical Education
Chemistry	Political Science
Economics	Psychology
Education	Radio
English	Secretarial Training
French	Sociology
Health and Hygiene	Spanish
History	Speech and Dramatics
Home Economics	Wildlife Management
Industrial Education	Zoology

The requirements for each major and minor listed are to be found stated in detail at the beginning of the respective divisional sections under "Courses of Instruction."

SCHOLARSHIP. A scholarship average of "C" (index of 1.0) is required for graduation with the Bachelor's Degree in all work taken, and in the majors and minors, as well.

LOWER DIVISION CURRICULA

The College offers two types of lower division curricula. The first is terminal in character and is offered in the following fields:

Secretarial Training (p. 134)

Journalism (p. 102)

Drafting (p. 71)

Recreational Leadership (p. 91)

Photography (p. 63)

The second type comprises a number of lower division curricula the continuance of which in the upper division the College is not equipped to provide. Most of such curricula are pre-professional or technical in character, and are designed to meet the needs of those students who plan to obtain a Bachelor of Arts or a Bachelor of Science Degree or a certificate of completion at some other institution, but who wish to do the lower division work at Humboldt. *These students should acquaint themselves with the particular requirements of the institutions to which they intend to transfer and should ascertain which of the courses offered at the College will be accepted in preparation for their chosen fields of study.*

The following curricula are the more common fields of study in which the College offers lower division courses. These curricula are suggestive rather than fixed, since the specific course requirements of other institutions may vary. Nor is the list of lower division curricula complete; others may be arranged if the demand presents itself.

Since most of the students who take their lower division work at this College and then transfer elsewhere for the upper division work transfer to the University of California at Berkeley, the curricula described below are in most instances devised to meet the requirements of the University.

In some instances the University revises its requirements after the publication of this catalog, and the student is therefore cautioned that he should be sure to consult the latest bulletin from the University.

Students transferring to the University of California must meet (a) the entrance requirements of the University; and (b) the lower division requirements for the specific curricula involved.

PRE-AGRICULTURE

Students who expect to major in Agricultural Economics, Animal Science, Plant Science, Agricultural Education, Entomology, Parasitology, or Soil Science may complete from one to two years of the program in this College. The requirements for the specific curricula vary somewhat in detail, and the student should follow as far as possible the pattern prescribed by the institution in which he expects to complete his work. During the first two years, the student usually takes the basic sciences, such as zoology, chemistry, botany or bacteriology; mathematics, at least through trigonometry; English or speech, and other general education requirements including fulfillment of the requirement in United States history and constitution. The details of the student's program should be worked out in consultation with his adviser.

PRE-ARCHITECTURE

Professional work in architecture is often introduced in the lower division. For that reason, the student is advised to reach an early decision concerning the school of architecture in which he expects to matriculate. If he has entrance deficiencies, or if the school of his choice postpones the professional courses until the junior year, he may find it advantageous to enroll at Humboldt State College. Here, he should include in his program Physics 2A-2B, 3A-3B, Mathematics 3A-3B, 4A, and Industrial Education 7A and Engineering 22, if he has not had Mechanical Drawing in high school. He may also fulfill requirements in Subject A, United States history and constitution, foreign language, or other general courses prescribed by the professional school of architecture. A variety of courses in art may also be desirable.

PRE-DENTAL

Subject A	Units
English 1A-1B or Speech 1-2 or 1-3	6
Physical Education	2
Science	28-32
(a) Chemistry 1A-1B, 8, 9 or 5	16
(b) Physics 2A-2B and 3A-3B or 4A-4B	8
(c) Zoology 1A-1B	8
Trigonometry (if not taken in high school)	3
U. S. History and Government	4
Electives selected from the following groups	18
(a) Group I: 2 year-courses selected from	
Economics 1A-1B	
History 4A-4B, 8A-8B	
Mathematics 2, 3A-3B	
Political Science 1A-1B	
Psychology 1-2	
Sociology 1A-1B	
(b) Group II: 1 year-course from Group IIA or any 2 semester courses from Group IIB	

IIA

A year sequence of any foreign language
 English 46A-46B, 74A-74B
 Music 101-102
 Philosophy 6A-6B

IIB

Art 2
 Music 3A, 3B
 Any two semesters of a foreign language in which at least six units have previously been completed or are completed concurrently.

Pre-Dental Hygiene

The first two years of the four-year program prescribed for the Bachelor of Science in Dental Hygiene is similar to that for the pre-Dental program. The Dental Hygienist is equipped upon graduation and licensing to clean and examine teeth, take and develop X-rays and otherwise assist a dentist at a professional level. Applicants for admission to

the professional curriculum must have completed 60 units in the lower division with a satisfactory scholarship record (approximately half way between a B and C average), including fulfillment of the requirements in Subject A, United States history and constitution and either the equivalent of the Associate in Arts Degree at the University of California, or an approved sequence of year courses as outlined by the university.

ENGINEERING

All students who expect to complete engineering curricula at the University of California are required to complete the following general requirements:

Subject A (English A, 1A or 1B at Humboldt meets this requirement)	Units
U. S. History and Constitution-----	4
Physical Education -----	2
Electives chosen from at least two of the following groups-----	12
1. English, Public Speaking	
2. Foreign Language	
3. Business Administration, Economics, Political Science	
4. Anthropology, History, Psychology, Sociology	
5. Biological Sciences	
6. Fine Arts and Philosophy	

Note: Students in Industrial, Agricultural, Mechanical, Mining, Petroleum Engineering, Metallurgy, and Mineral Exploration must select 3 units from group 1, and the 9 additional units from two of the other groups.

Attention is also called to the fact that admission to the College of Engineering will be based primarily on the results of an entrance examination, details of which may be learned by writing to the Dean of the College of Engineering, Berkeley, California.

Students may complete approximately two years of engineering work at Humboldt State College in the fields of civil, electrical, industrial, mechanical, and petroleum engineering, and at least one year in the fields of agricultural, metallurgical, mining engineering and economic geology.

PRE-FORESTRY

Subject A	Units
Botany 1A-1B -----	8
Chemistry 1A, 8 -----	8
Engineering 1A-1B -----	6
Economics 1A-1B, 40-----	9
Geology 1A -----	3
Mathematics 3A-3B -----	6
Physics 2A-2B, 3A-3B-----	8
Physical Education -----	2
U. S. History and Constitution-----	4
Zoology or Biology-----	3
Choice of Public Speaking, English, or Philosophy-----	6

PRE-LEGAL

Many colleges of law now require a bachelor's degree as a basis of admission. Students who expect to study law are advised to secure a degree if possible, majoring in social sciences, English, speech, or selecting a group major.

Those who expect to enroll in a college of law requiring less than an A.B. Degree usually plan the lower division work to comply with the requirements for the Associate in Arts Degree at the University of California or with the requirements of a specific College of Law, many of which now require at least three years of pre-legal study.

PRE-LIBRARY SCIENCE

A good general education is the best basis for librarianship. Four years of college, followed by one or two years of professional study in an accredited library school, is the usual requirement. A student should plan his undergraduate course so as to acquire a good background in history, and in American, English and foreign literatures, and a working knowledge of at least two foreign languages, especially French and German. Study in the social sciences, psychology and education, and the physical sciences is important, and intensive study in some one field, such as chemistry, music, art, political science, education, or business is desirable.

PRE-MEDICAL

An A.B. Degree is desirable as a basis for admission to medical school, and wherever possible, students interested in medicine are advised to complete the requirements for the A. B. Degree with a major in pre-medical sciences. This curriculum is designed to meet the requirements for an Associate in Arts Degree at the University of California, and the student who wishes to transfer after two or three years at Humboldt may plan his program to conform with those requirements.

Pre-professional courses may also be arranged for dental assistants, chiropodists, medical technologists, laboratory technicians, occupational or physical therapists, and other related specialists.

PRE-MORTUARY SCIENCE

Two years of college work is required for admission to a college of mortuary science. A recommended program includes the following:

Subject A	Units
Art 1, 20A	5
Business Administration 14A-14B, 18, 118	12
English 1A-1B	6
Health and Hygiene 1, 160	5
Physical Education	2
Science	29
Anatomy 66	3
Bacteriology 1	5
Chemistry 1A-1B	10
Zoology 1A-1B, 160	11
Electives	4

PRE-NURSING

(See page 97.)

PRE-OPTOMETRY

Applicants for admission to the curriculum in Optometry must meet the requirements of the Associate in Arts Degree at the University of California, including the following specific courses:

Subject A	Units
Speech 1, 3	6
Foreign Language*	16
Chemistry 1A, 8	8
Bacteriology	5
Physics 2A-2B, 3A-3B	8
Anatomy 66	3
Mathematics 3A	3
Physical Education	2
Psychology 1-2	6
Zoology 1A	4
U. S. History and Constitution	4

If the student has not had Mechanical Drawing in high school he should include it in his program as an elective.

PRE-PHARMACY

Subject A	Units
English 1A-1B or Speech 1 and 3	6
Mathematics C and D (if not taken in high school), 1 or 3	3-9
Botany 1A	4
Zoology 1A-1B	8
Chemistry 1A-1B, 5, 8, 9	19
Physics 2A-2B, 3A-3B	8
Physical Education	2
U. S. History and Constitution	4

PRE-VETERINARY MEDICINE

	Units
English 1A-1B or Speech 1 and 3	6
Chemistry 1A-1B, 8	13
Zoology 1A-1B, 160	11
Physics 2A-2B	6
Economics 40	3
Electives	
Chosen from the fields of:	12
Social sciences, foreign languages, philosophy, psychology, fine arts and literature, and/or additional courses in English, speech, and mathematics.	
Electives to total	60

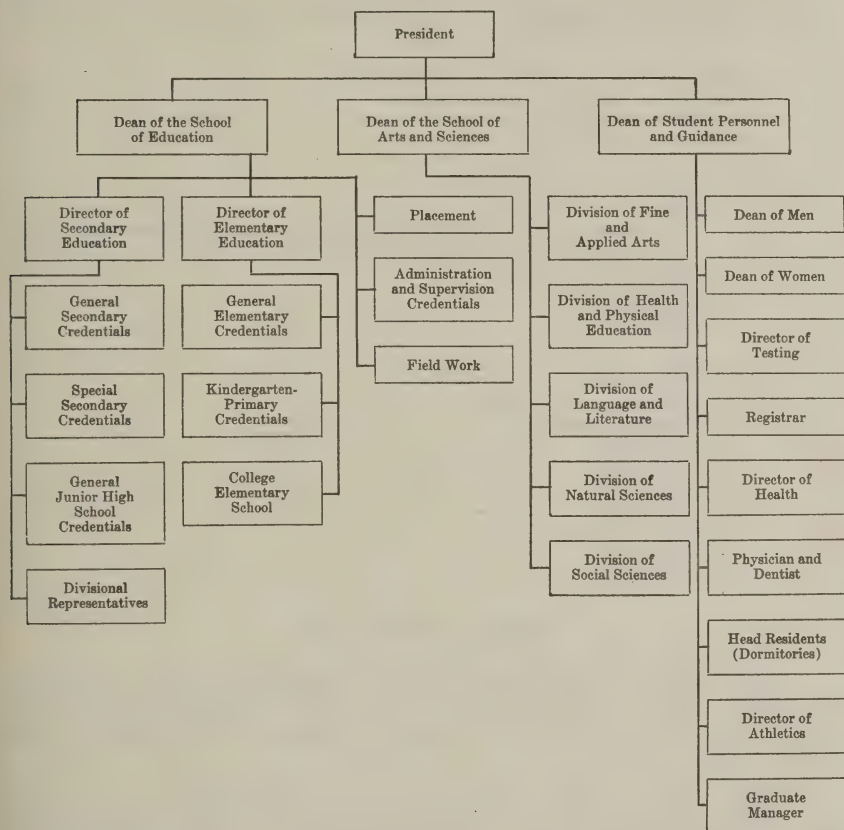
Students interested in other lower division, pre-professional curricula should consult the Registrar. Among other programs which may be arranged are such curricula as laboratory technician, physiotherapist, occupational therapist, medical technologist, chiropodist, or airline hostess.

* See Associate in Arts Degree requirements.

COURSES OF INSTRUCTION

ORGANIZATION

The following chart shows the functional organization of Humboldt State College:



As indicated by this chart, the curricular offerings of the College are organized into two main categories under the leadership of two academic deans, the Dean of Education, and the Dean of Arts and Sciences. The Dean of Education exercises general supervision over the courses offered in Education, and the entire teacher-education program, including the administration of the College Elementary School.

The Dean of the School of Arts and Sciences supervises the work of five divisions in Arts and Sciences; namely, the Divisions of Fine and Applied Arts, Health and Physical Education, Language and Literature,

Natural Sciences, and Social Sciences. Under these divisions, the fields of study are grouped as follows:

1. The Division of Fine and Applied Arts
 - a. Art
 - b. Home Economics
 - c. Industrial Arts
 - d. Music
 - e. Speech, Drama, and Radio
2. The Division of Health and Physical Education
 - a. Physical Education for men and women
 - b. Health and Hygiene
3. The Division of Language and Literature
 - a. English Language and Literature
 - b. Foreign Languages and Literature
 - c. Journalism
4. The Division of Natural Sciences
 - a. Biological Sciences
Anthropology, Bacteriology, Biology, Botany, Physiology and Anatomy, and Wildlife Management and Fisheries
 - b. Physical Sciences
Chemistry, Geology, Physics
 - c. Mathematics
 - d. Engineering
5. The Division of Social Sciences
 - a. Business Administration
 - b. Business Education
 - c. Economics
 - d. Geography
 - e. History
 - f. Philosophy
 - g. Political Science
 - h. Psychology
 - i. Sociology

EXPLANATORY NOTE

Lower division courses carry numbers between 1 and 99, inclusive. They are designed for freshmen and sophomores, but are open to juniors and seniors as well. They do *not* count as upper division work in any department.

Upper division courses carry numbers between 100 and 199, inclusive. They are open only to students who have attained upper division status and who have completed a lower division course or courses deemed preparatory by the department concerned. Lower division students are not usually admitted to upper division courses except in special cases with the consent of the instructor.

Graduate courses are given numbers between 200 and 299, and are open only to students who have been admitted to the graduate division.

Courses in directed teaching carry numbers between 300 and 399, inclusive. They are open only to upper division or graduate students.

Courses designated with a letter only (e.g., Mathematics C) are usually courses of high school level that are taught in college.

The semester in which a course is taught is indicated parenthetically after the title. Those courses designated "year" run consecutively through both the fall and spring semesters.

Because of varying exigencies from semester to semester in making up the schedule of classes, the instructor and time and place of meeting of each course of instruction are not given in the following descriptions. At the end of each semester a schedule of classes, containing such information for the following semester, is mimeographed for distribution.

SCHOOL OF EDUCATION

Professional curricula have been organized under the authority of the State Board of Education, leading to the following teaching credentials:

1. **KINDERGARTEN-PRIMARY**, authorizing the holder to teach in any kindergarten and in grades one to three of any elementary school.
2. **GENERAL ELEMENTARY**, authorizing the holder to teach in any elementary or junior high school through the eighth grade.
3. **JUNIOR HIGH SCHOOL**, authorizing the holder to teach in grades seven, eight, and nine of any elementary or secondary school.
4. **SPECIAL SECONDARY CREDENTIAL**, authorizing the holder to teach a special subject in elementary and secondary schools. Humboldt State College offers special secondary credentials in art, music, physical education, and home economics.
5. **GENERAL SECONDARY CREDENTIAL**, authorizing the holder to teach in the secondary schools and in grades seven and eight of the elementary schools.

Majors and minors for the general secondary credential are available in many fields, listed on pages 34 and 39.

This credential requires the completion of a year of work after receiving the bachelor's degree.

6. **ELEMENTARY SCHOOL SUPERVISION**, authorizing supervision of elementary schools.
7. **SPECIAL SUPERVISION**, authorizing supervision in a special subject field such as music, art, or physical education, in which the applicant holds a special secondary credential.
8. **ELEMENTARY ADMINISTRATION**, authorizing the administration of elementary schools.

ADMISSION TO CANDIDACY FOR TEACHING CREDENTIAL

Students seeking admission to candidacy for a teaching credential must file formal application for admission by the end of the sophomore year or as soon thereafter as possible. Application forms may be secured from the office of the Dean of the School of Education. A committee on credentials will study carefully the qualifications of each applicant, by means of appropriate tests, personal interviews, and other pertinent data. Candidates will be accepted who have met the following standards, based on the regulations of the State Board of Education:

1. **INTELLIGENCE**. All candidates are required to make a satisfactory score on a standard college aptitude test.
2. **SCHOLARSHIP**. Candidates are required to "demonstrate and maintain scholastic ability of not less than that indicated by a grade-point average of "C." A "C" average in all lower division work will be necessary for unqualified admission to candidacy for a credential.
3. **TYPE OF PROGRAM PURSUED**. The candidate must have completed two years of liberal arts education, as well as the courses prerequisite to the training for the type of credential sought.

4. **PROFESSIONAL APTITUDE, PERSONALITY, AND CHARACTER.** "The candidate shall demonstrate suitable aptitude and fitness for teaching and for adjustment to public school conditions." Evidence of this will be found in personality and character traits which are in keeping with the standards of the profession. Specific attention shall be directed to physical appearance, poise, dress, vitality, social attitude, co-operativeness, temperament, and integrity.

5. **PHYSICAL FITNESS.** The candidate must comply with the standards of physical fitness required for a teaching credential.

6. **SPEECH AND LANGUAGE USAGE.** Better than average proficiency in oral and written language is required.

7. **MANY-SIDED INTEREST.** "The candidate shall demonstrate diverse and well-balanced interests. He shall be able to understand and interpret his major interest and field of study in suitable relationship to all others."

8. **FUNDAMENTALS.** All candidates for a credential are required to demonstrate proficiency in the fundamental school subjects. A satisfactory score must be made on standard tests in: arithmetic, elementary science, language usage, reading, social studies, and spelling. The student is also expected to demonstrate proficiency in handwriting.

9. **PROFICIENCY IN MAJOR FIELD.** No candidate for a secondary or junior high school credential will be approved without a written statement from his subject adviser verifying the candidate's ability and likelihood of teaching success in his major field.

GENERAL CREDENTIAL REQUIREMENTS

UNITS REQUIRED. For those credentials which may be granted concurrently with the A.B. Degree, 120 units are required. Not more than 40 units in Education or any one subject field may be applied toward the basic 120 units.

If a candidate already possesses an A.B. Degree, the minimum requirement is 24 units completed at this College.

UNITED STATES HISTORY AND CONSTITUTION. All candidates for credentials are required to pass satisfactorily a course or an examination in United States history and constitution, or to present appropriate courses in these fields from an accredited institution.

CITIZENSHIP. Only United States citizens may become candidates for long-term teaching credentials. Aliens who have filed their first papers are eligible to apply for short-term credentials. Failure to complete the naturalization process within six months of the date of eligibility will result in the revocation of the credential. After an applicant has become naturalized, he may qualify for a long-term credential.

MAJORS AND MINORS. Candidates for the General Elementary and the Kindergarten-Primary Credentials must complete a major in Education and one minor. Candidates for the General Junior High School Credential are required to complete a major and a minor in subject fields taught in junior high school. Candidates for the Special Secondary Credentials must complete a major in the special field and one minor.

Candidates for the General Secondary Credential must complete a major and a minor in subjects taught in the high school. The special secondary and the general secondary majors require a minimum of 12 units of upper division work, and the secondary minor requires a minimum of 20 units, though departmental requirements often exceed this minimum. The list of available majors and minors is found on pages 34 and 39.

SCHOLARSHIP. Candidates for teaching credentials must comply with the following scholarship requirements:

1. A grade of "C" or better must be earned in each required course in education. Students who fail to meet this requirement cannot be admitted to directed teaching.

2. An average grade of "C" or better in all college work is required for admission to Education 133 or 175.

3. Candidates for the General Secondary Credential must maintain an index of 1.5 on all work taken in the upper division and the major field and 1.75 on all work taken in the graduate year.

4. Only a grade of "+" (satisfactory), inc. (incomplete), or "F" (failure) will be given for directed teaching. A grade of "incomplete" indicates that the student may be allowed an additional time in which to meet the required standards. A grade of "F" indicates that the candidate is considered to lack the requisite qualities for successful teaching. The units earned in directed teaching do not figure in the calculation of the candidate's scholarship index.

COURSE REQUIREMENTS FOR CREDENTIAL CURRICULA

The courses listed below for the various credentials have been selected to meet the state and college requirements and to provide a strong background of general and professional preparation for teaching. In order to meet requirements for prerequisites, courses should be taken in the year indicated whenever possible. Some courses are available only once a year or once each two years. The student must be careful to take such courses whenever offered so as to avoid possible delay in obtaining a credential. Electives or substitutions should be selected only after consultation with the student's adviser.

<i>Requirements for the A.B. Degree with</i>	<i>Elementary Credential</i>	<i>Kind-Prim. Credential</i>	<i>Junior H. S. Credential</i>
First Year	Units	Units	Units
Biol. 10A-10B—General Biology-----	6 ¹	6 ¹	6 ¹
Engl. 1A-1B—First-year Reading and Composition--	6	6	6
H. H. 1—Personal Hygiene-----	2	2	2
Music 10—Musicianship -----	3	3	—
Or. II—Orientation II-----	1	1	1
P. E. 5 or 15—Freshman Physical Activities-----	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
P. E.—Selected activity-----	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Soc. 1A-1B—Introduction to Sociology or Hist. 4A-4B—History of Western Civilization----	6	6	6
* Electives or Minor-----	5	5	8

* Candidates who have not passed elementary algebra and plane geometry in high school must enroll for subcollegiate, noncredit courses in these subjects, or pass an examination given by the Mathematics Department.

¹ Students minoring in Botany or Zoology should substitute Botany 1A-1B or Zoology 1A-1B for Biology 10A-10B.

<i>Requirements for the A.B. Degree with</i>	<i>Elementary Credential</i>	<i>Kind.-Prim. Credential</i>	<i>Junior H. S. Credential</i>
Second Year			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Art 1—Art Structure.....	2	2	-
Geog. 5—Introduction to Economic Geography.....	3	3	-
Music 60 or 65—Chorus or A Cappella Choir.....	1-2	1-2	-
P. E.—Selected activities.....	1	1	1
Phys. Sci. 5A-5B—Fundamentals of the Physical Sciences	6	6	6
Psych. 1—General Psychology	3	3	3
Spch. 1—Fundamentals of Speech.....	3	3	3
† Soc. Sci.—Economics, Political Science, or History	6	6	6
Electives or Minor.....	4-5	4-5 (or major)	11

† The student must include in his program fulfillment of the requirement in United States history and constitution. See page 38.

Third Year *			
Art 190—Elementary School Art.....	2	2	} Choose any two courses
Biol. 190—Elementary School Science.....	2	2	
I. E. 15—Elementary School Crafts or I. E. 51—Fundamentals of Industrial Education...	3	3	
Mus. 190—Elementary School Music.....	2	2	
P. E. 190—Elementary School Physical Education...	2	2	
Educ. 113—Psychological and Social Foundations of Education	5	5	5
Educ. 133A—Elementary School Curriculum (Grades 1-4)	-	4	-
Educ. 133B—Elementary School Curriculum (Grades 5-8)	-	-	4
Educ. 153—Audio-Visual Education	2	2	2
Educ. 195—The Teaching of Secondary School Sub- jects (Major field)	-	-	2
Engl. 178—Children's Literature	3	3	3
P. E. 191—Singing Games and Folk Dances.....	1	1	-
Electives or Minor or Major.....	8	4	9-10

Fourth Year			
Educ. 104—Principles of Elementary Education...	2	2	-
Educ. 133A-B—Elementary School Curriculum	8	-	-
Educ. 137—Rural Education	2	-	-
Educ. 175—Core Course in Secondary Education.....	-	-	5
Educ. 191—The Kindergarten	-	2	-
Educ. 193—Art in the Kindergarten-Primary.....	-	2	-
Educ. 194—Music and Games in the Kindergarten- Primary	-	2	-
Educ. 320A—Directed Teaching—Grades 1-4.....	5	5	-
Educ. 320B—Directed Teaching—Grades 5-8.....	5	-	5
Educ. 321—Directed Teaching—Kindergarten-Pri- mary	-	5	-
Educ. 340A—Directed Teaching—Secondary.....	-	-	3
Electives or Minor or Major.....	8	12	17

Students are advised not to take the Junior High School Credential alone because of its limited authorization and because it cannot be used as a basis for an Administrative Credential. Candidates for a combination of the General Elementary and the Junior High School Credentials

* The Director of Elementary Teacher Education will assign students enrolled for the General Elementary or the Kindergarten-Primary Credentials to one of two sequences to distribute the opportunities for directed teaching equitably between the two semesters.

should meet the requirements for the General Elementary Credential and take in addition:

Education 195 (major field)-----	2 units
Education 175 -----	5 units
Education 340A -----	3 units

Since completion of a major and a minor in junior high school fields is required, it may be necessary for the student to use a portion of his elective units in meeting these requirements. At least one summer session in addition to the four years may be needed to complete requirements for the two credentials.

Holders of the General Secondary Credential are qualified for the General Elementary Credential if they have taken at least six units in elementary education, including methods of teaching basic elementary school subjects, curriculum, and directed teaching.

THE SPECIAL SECONDARY CREDENTIALS

These credentials represent a high degree of specialization in a particular subject field at both the elementary and the secondary levels. The holder must have training and competence to qualify him for teaching his subject at either level. Specific requirements for these credentials are given under the respective divisions as follows:

Division of Fine and Applied Arts

Special Secondary Credential in Art, page 62.

Special Secondary Credential in Home Economics, page 67.

Special Secondary Credential in Music, page 76.

Special Secondary Credential in Speech Correction, page 75.

Division of Health and Physical Education

Special Secondary Credential in Physical Education, page 90.

Division of Social Sciences

Special Secondary Credential in Business Education, page 131.

The student begins his professional training in the junior year. It is recommended that the professional courses in Education be taken in the following sequence:

Third Year

Educ. 113—Psychological and Social Foundations of Education-----	5 units
Educ. 153—Audio-Visual Education -----	2 units
Electives, major or minor-----	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education-----	5 units
Educ. 320C—Directed Teaching in the Elementary School (Major Field)---	2 units
Educ. 340A—Directed Teaching in the Secondary School (Major Field)---	3 units
Educ. 195—The Teaching of (Major Field)-----	2 units
Electives, major or minor-----	18 units

Candidates for a special secondary credential are urged to secure a general credential for either elementary or secondary teaching in addition to the special credential. The requirements for the General Secondary Credential are for the most part a continuation of the work done for the special credential. A flexible program can be arranged to permit the candidate to qualify for a General Elementary Credential in addition to the Special Secondary. Information on this program may be secured from the office of the Dean of Education.

THE GENERAL SECONDARY CREDENTIAL

The program for this credential must provide a broad, cultural background, plus professional education for effective secondary school teaching. Since the requirements are somewhat more exacting than for certain other credentials, they are summarized below.

Summary of General Requirements

1. Possession of an approved bachelor's degree from a recognized college or university.
2. A scholarship average of 1.5 for all work taken in the upper division and in the major field.
3. Fulfillment of the requirement in United State history and constitution.

4. Formal admission to candidacy for the credential. Application should be made at the end of the sophomore year. Students who transfer to Humboldt State College during their junior year or later should apply during their first semester of residence. Candidacy is subject to continuous review until the credential is earned.

5. Admission to graduate standing. Formal application for graduate standing must be made and admission approved before the student can matriculate for the credential.

6. Completion of a graduate year of two semesters or the equivalent, with at least 30 units of work beyond the bachelor's degree with a grade point average of 1.75 or better, including at least six units in professional courses in Education and six units in subjects commonly taught in the junior or senior high school. (Students who complete all the work for the credential prior to September, 1951, may be required to finish only 24 units in the graduate year.)

7. Completion of a teaching major with at least 36 units of lower, upper division, and graduate work, at least 12 in the upper division.

8. Completion of a teaching minor with a minimum of 20 units, at least six of which are in the upper division.

9. Completion of 24 units in courses in professional Education with a grade of "C" or better, at least six of which must be taken in the graduate year, and including six units of directed teaching in the major and minor fields.

10. Completion of at least 24 units of work in residence at Humboldt State College, including at least 15 of the 30 required in the fifth year.

Detailed requirements are given under the appropriate instructional divisions as indicated above. It is recommended that the professional courses in Education be taken in the following sequence:

Third Year

Educ. 113—Psychological and Social Foundations of Education.....	5 units
Educ. 153—Audio-Visual Education	2 units
Electives or major or minor.....	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education.....	5 units
Educ. 195—The Teaching of Secondary School Subjects (Major field)	2 units
Completion of Pre-secondary requirements and teaching minor.....	23 units

Fifth Year

Educ. 265—Guidance in Education.....	2 units
Educ. 275—Seminar in Secondary Education.....	2 units
Educ. 340A-340B—Directed Teaching.....	6 units
Upper Division or Graduate courses in teaching fields.....	6 units
Major, minor, or electives.....	14 units
Total	30 units

Students planning to earn a Master's Degree in combination with the General Secondary Credential will be required to take the additional graduate courses in Education prescribed on page 36.

DESCRIPTION OF COURSES**Upper Division****104. Principles of Elementary Education 2 units**

Principles guiding the various aspects of good teaching are developed consistent with current educational thought. Students will be given opportunities to apply these principles to practical situations which recur daily.

Two one-hour periods per week.

113. Psychological and Social Foundations of Education * 5 units

A unified approach to the role of education in society, the learner's physical, intellectual and emotional development, his learning processes, and his interaction with other individuals and groups. Includes case studies, observation of teaching, and participation in school situations.

Five one-hour periods per week.

Prerequisite: Psychology 1.

125. The Public School System (summer) 3 units**132. Observation and Participation (fall, spring) 1-2 units**

An opportunity for upper division students to obtain a better understanding of teaching through supervised participation in classroom situations.

This course is not applicable to the requirement in directed teaching.

From three to six hours per week, depending upon units to be earned.

Prerequisite: Consent of the instructor.

133A-133B. Elementary School Curriculum ¹ 8 units

A comprehensive overview of teaching in the elementary school. It covers such topics as courses of study; units of work; methods; materials; discipline, etc.

133A—Lower grades.

133B—Upper grades.

The time spent will be approximately equivalent to six hours a week of class work with four hours of observation and participation in classroom procedure.

137. Rural Education 2 units

A course designed to develop an understanding of the place of the school in the life of rural communities, ranging from the open country to small cities at the heart of rural areas. Special emphasis on school organization, records, and legal and professional relationships affecting the rural teacher.

Two one-hour periods per week.

139. Advanced Elementary School Curriculum (summer) 3 units**140A. Administration of Elementary Schools (summer) 2 units****140B. Field Problems in Administration (summer) 2 units****141A. Supervision in Elementary Schools (summer) 2 units****141B. Field Problems in Supervision (summer) 2 units**

* This course fulfills specific requirements for Educational Psychology, Child Growth and Development, and Educational Sociology.

¹ See scholarship requirements, page 50.

- 145. School Finance (summer)** 2 units
- 148. Legal and Professional Aspects of Education (summer)** 2 units
- 153. Audio-Visual Education (fall)** 2 units

A study of the vast array of educational resource materials available to teachers. Techniques of preparation, selection, use, and evaluation of materials. Opportunities provided for developing skill in care and operation of standard equipment.

- 165. Pupil Personnel and Guidance (summer)** 2 units
- 175. Core Course in Secondary Education¹** 5 units

A study of the legal and professional obligations of the secondary school teacher; the principles, practices, and philosophy of secondary education; the secondary school curriculum; the methods used in directing the learning situation, classroom organization and management. Observation of secondary schools and participation in school activities will be required.

Prerequisite: Education 113.

Five one-hour periods per week.

- 190. The Teaching of Elementary School Subjects** Each course 2 Units

A series of courses dealing with the teaching of special subjects taught in the elementary school. Each course will emphasize sources and utilization of materials at various grade levels. Observation and experience in preparing teaching materials will be included.

These courses should be taken prior to Directed Teaching, and include the following:

- Educ. 190A. Elementary School Art (see also Art 190)
 Educ. 190M. Elementary School Music (see also Music 190)
 Educ. 190PE. Elementary School Physical Education (see also P. E. 190)
 Educ. 190S. Elementary School Science (see also Biol. 190)

- 191. The Kindergarten** 2 units

Designed to develop understandings essential for organizing and conducting a sound kindergarten program. Areas covered include characteristics of the four- and five-year-old, materials of instruction, dramatic play, health, behavior problems, development of reading and number readiness, and work with parents. Should precede directed teaching in the kindergarten (Education 321).

- †193. Art in the Kindergarten-Primary** 2 units

Provides understanding of and experience in the theory and technique of teaching art in a modern kindergarten-primary program. Should precede directed teaching in the kindergarten (Education 321).

- †194. Music and Games in the Kindergarten-Primary** 2 units

Provides theory and experience in teaching music from a creative approach. The student becomes acquainted with extensive materials for singing, rhythms, games, and listening.

- 195. The Teaching of Secondary School Subjects** Each course 2 units

Professional courses in the teaching of the major and minor fields at the secondary level. Each course deals with the objectives, materials, and special procedures involved in teaching that field. Observation and experience in preparing teaching materials will be included.

These courses will be taken prior to or concurrently with Directed Teaching.

The numbers and titles of these courses, to be offered as needed, are:

- Educ. 195A. The Teaching of Art
 Educ. 195B. The Teaching of Business Education
 Educ. 195E. The Teaching of English
 Educ. 195HE. The Teaching of Home Economics
 Educ. 195HH. The Teaching of Health and Hygiene

¹ See scholarship standards, page 50.

† Given if sufficient demand.

- Educ. 195M. The Teaching of Music
 Educ. 195Ma. The Teaching of Mathematics
 Educ. 195S. The Teaching of Science
 Educ. 195SS. The Teaching of Social Studies
 Educ. 195Sp. The Teaching of Speech
 Educ. 195PE. The Teaching of Physical Education

199. Special Problems in Education

Research in Education to be carried on under the direction of the College. Credit to be arranged.

Graduate Division

212. Psychology of Adolescence (fall) 2 units
 (See Psychology 212, page 147.)

215. Evaluation of Learning 2 units

The selection, use, and interpretation of formal and informal methods of evaluating learning; use of standard statistical procedures in the interpretation of results; and practice in administering evaluation instruments.

Two one-hour periods per week.

224. History and Philosophy of Education 2 units

The development of the major theories of education, with their contributions and applications to modern educational procedures. The student is afforded opportunities to evaluate critically the contributions of the past in developing an understanding of education in a democracy.

Two one-hour periods per week.

265. Guidance in Education 2 units

Advanced study of the principles involved in assisting the student in the formulation and acceptance of adequate personal, educational, and vocational objectives; a critical study of the bases of individual differences and of appropriate educational adjustments; organization and use of cumulative personnel data in guidance procedures.

275. Seminar in Secondary Education 2 units

An advanced course in secondary education dealing with the problems of teaching in and administering the secondary school; recent reports of national professional groups; and newly developed research in this field.

Prerequisites: Graduate standing and Education 113 and 175 or their equivalents.

Two one-hour periods per week.

290. Master of Arts Thesis 3 units

See page 35.

298. Master's Degree Seminar 2 units

A seminar organized to deal with the problems arising from the initiation of research by candidates for the Master of Arts degree. A study of procedures in educational research, types of problems amenable to experimentation, obstacles frequently encountered, and pitfalls that exist.

299. Special Problems in Education 2-4 units

Independent graduate level research on special problems. Particularly adapted to experienced teachers.

DIRECTED TEACHING

Directed Teaching is one of the most important stages in the preparation of a teacher. It provides preservice experience in organizing and

managing classroom situations, directing and appraising learning activities, keeping school records, and participating in the community activities of the school.

The work of the student teacher is carried on through the stages of observation, participation, and responsible teaching under the guidance of supervising teachers and supervisors carefully selected by the School of Education and the various instructional divisions of the College. Most of the directed teaching at the elementary levels is done in the College Elementary School, while cooperative arrangements with secondary schools in the college neighborhood make possible a wide variety of outstanding teaching situations at these levels.

All students will be expected to spend at least three hours per week throughout a semester for each unit of credit in Directed Teaching. A part of this time will be devoted to preparation of teaching materials and to conferences with supervisors.

This work involves professional responsibilities that must be met promptly and regularly, and students are not expected to participate in extracurricular activities or register for course work that will in any way interfere with their directed teaching.

ADMISSION TO DIRECTED TEACHING

1. During the semester preceding the student's registration for Directed Teaching, he should file an application for an assignment in the office of the director of Secondary Teacher Education (for Education 340A-340B), or in the office of the Director of Elementary Teacher Education (for all elementary assignments).

2. Applicants shall not be deemed eligible for assignment to Directed Teaching unless they have met the stated prerequisites and have maintained satisfactorily the standards prescribed for admission to the credential program. See page 49.

320A-320B. Directed Teaching in the Elementary School¹ 5-5 units

Students teach under supervision in an elementary school for one semester for the General Elementary Credential. Taken during the same semester, each half requiring nine weeks and carrying five units of credit.

320A—Lower Grades (Prerequisite: 133A)

320B—Upper Grades (Prerequisite: 133B)

320C. Directed Teaching in the Elementary School (Special Fields)¹ 1-4 units

Directed teaching at the elementary level for candidates for the special secondary credentials in their respective fields and for other students needing special assignments in directed teaching. Credit is allowed at the rate of one unit for three hours of participation per week.

Prerequisite: Education 113 and appropriate elementary methods courses, and consent of the Director.

321. Directed Teaching in the Kindergarten¹ 5 units

Students teach under supervision in the College Elementary School 15 hours per week for one semester for the special Kindergarten-Primary Credential. This time is devoted to conferences, preparation of materials, and teaching.

Prerequisite: Education 191, 193, 194, and satisfactory skill in piano.

¹ See scholarship requirements, page 50.

340A-340B. Directed Teaching in the Secondary School ¹**3-3 units**

Each student is assigned to a supervising teacher in a cooperating secondary school, where he will gradually assume responsibility for two teaching assignments in his major and minor fields, together with other school activities.

Candidates for the Special Secondary Credential in Business Education may register for 340A for four units.

Five hours of teaching per week for a semester, for each assignment.

Prerequisite: Education 175 and 195.

350. College Teaching in Special Fields**2 units**

Students assist in college classes under the supervision of the regular instructors in these courses.

Prerequisites: Education 320C or 340A and recommendation of the Chairman of the Division.

360. Advanced Teaching**2 units**

This course provides an opportunity for students to do advanced teaching, which may include work with special subjects or experimentation with methods of teaching.

Prerequisite: Prior credit in Directed Teaching or teaching experience.

ADMINISTRATIVE CREDENTIAL CURRICULA

An Elementary School Administration Credential is required for the position of principal of a school of more than five teachers. A supervisor devoting more than half-time to supervision of instruction is required to have an Elementary School Supervision Credential.

General requirements for these two credentials are the possession of a valid General Elementary Credential, and two years of successful teaching experience in the elementary school.

For the Elementary School Administration Credential, it is necessary to complete 30 semester units of upper division or graduate work in addition to the holding of the General Elementary Credential, or training which an institution approved or accredited to recommend for the Elementary School Administration Credential certifies as fulfilling institutional requirements for a full year of work in addition to the holding of the General Elementary Credential.

For the Elementary School Supervision Credential, the requirement is 24 semester units of upper division or graduate work in addition to the holding of the General Elementary Credential.

Course requirements for these credentials are as follows:

	<i>Administration Supervision</i>	
Education 140A. Administration of Elementary Schools-----	2	2
Education 140B. Field Problems in Administration-----	2	-
Education 141A. Supervision in Elementary Education-----	2	2
Education 141B. Field Problems in Supervision-----	-	2
Education 139. Advanced Elementary School Curriculum---	3	3
Education 115. Measurement in Education-----	2	2
Education 125. The Public School System-----	3	-
Education 145. School Finance-----	2	-
Education 148. Legal Aspects of Education-----	2	-
Education 165. Pupil Personnel and Guidance-----	2	2
Electives chosen to round out the student's professional and general education, minimum of-----	10	11
Minimum total-----	30	24

¹ See scholarship requirements, page 50.

RESIDENCE REQUIREMENT. One-half of the work for these credentials must have been taken at Humboldt State College, and at least 12 units in residence (not extension) here.

The Special Supervision Credential may only be granted to holders of Special Secondary Credentials in a given field. See the Registrar for requirements.

ORIENTATION

II. Orientation II (fall, spring)

1 unit

The student is helped to determine, early in his college career, whether or not he should pursue the teacher education curriculum. This is accomplished by acquainting the student with the various aspects of education as a profession, and providing many opportunities for observing elementary school children.

Two one-hour class periods per week plus special assignments.

III. Orientation III (fall, spring)

1-2 units

Opportunities are provided the student to keep in touch with children during the lower division years to help him reach a decision as to whether or not he desires to be a teacher. Observation and participation in classroom activities under the direction of a supervising teacher is the usual procedure.

Three hours per week per unit.

Prerequisite: Orientation II or consent of the instructor.

THE SCHOOL OF ARTS AND SCIENCES

The Division of Fine and Applied Arts

Art
Home Economics
Industrial Education

Music
Speech, Drama, and
Radio

Objectives

The objectives of the Division of Fine and Applied Arts are to provide:

1. An opportunity for the development of the powers and interests of the individual and a "general education" background in the field of the arts, especially for prospective teachers.
2. Curricula leading to:
 - a. General Secondary Credential with majors in art, music, language arts, and speech, enabling the student to teach in the secondary schools of the State.
 - b. The A.B. Degree with Special Secondary Credentials in art, home economics, music, and speech correction, allowing the holder to teach the special subject in the public schools of the State.
 - c. The A.B. Degree with Liberal Arts majors in art, home economics, music, speech, and allied arts (a group major), for the student interested in further specialized work, or for personal or vocational objectives.
 - d. A.B. Degree with Junior High School majors in art, home economics, industrial education, music, speech (including drama and radio).
3. Minors in art, home economics, industrial education, music, speech, drama, and radio.
4. Terminal courses in drafting and photography, which are vocational in character.
5. Courses for preprofessional students including partial fulfillment of the requirement for the Special Secondary Credential in Industrial Education.

REQUIREMENTS FOR THE A.B. DEGREE IN ALLIED ARTS

This curriculum is a group major, developed through the cooperation of the entire Division of Fine and Applied Arts to provide a flexible pattern for a broadly cultural program that will contribute toward the intelligent enrichment of everyday life.

Lower Division

Elementary Algebra and Plane Geometry (if not taken in high school)	
Social Sciences (see page 37)	12 units
Natural Sciences (see page 37)	12 units
English 1A-1B	6 units
Psychology 1	3 units
Physical Education	2 units

Lower division prerequisites in the three fields of the student's choice for major emphasis.

Upper Division

Thirty-six units in three fields with not less than six nor more than 18 in any one field. Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page 38), and in

one additional field to meet the minimum requirements of the State for a minor (see page 39).

Minimum lower division required.....	60 units
Minimum upper division required.....	40 units
Total units required.....	120 units

Scholarship Requirement: "C" average in the major in addition to the requirement of a "C" average in all work undertaken.

ART

Requirements for the A.B. Degree With Major in Art	General	Special	Liberal Arts *
	Secondary Credential	Secondary Credential	(Without a Teaching Credential)
Lower Division			
	Units	Units	Units
Art 2—Art History and Appreciation_____	3	3	3
Art 10—Design _____	3	3	3
Art 20A—Fundamentals of Drawing or 21A—Figure Drawing _____	3	3	3
Art 25—Color _____	3	3	3
Art 27A—Water Color Painting or 28A—Oil Painting _____	3	3	3
Art 40 or 41—Crafts_____	3	3	3
Art 45—Lettering _____	3	3	3
Engl. 1A-1B—First-year Reading and Composition	6	6	6
Phys. 15—Physics of Sound and Color_____	3	3	3
Nat. Sci.—Electives (See page 37) _____	9	9	9
Or. II—Orientation II_____	1	1	-
P. E.—Activities (Including P. E. 5 or 15) _____	2	2	2
Psych. 1—General Psychology_____	3	3	3
Soc. Sci.—(Including one-year course) _____	12	12	12
(See page 37)			
Fulfillment of requirement in United States history and constitution. (See page 38.)			
Math. A-B—Elementary Algebra and Plane Geometry if not taken in high school.			
Completion of lower division requirements for a minor. (See lists on page 39.)			

Upper Division

<i>Requirements for the A.B. Degree With Major in Art</i>	<i>General</i>	<i>Special</i>	<i>Liberal Arts *</i>
	<i>Secondary Credential</i>	<i>Secondary Credential</i>	<i>(Without a Teaching Credential)</i>
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Art 103—Advanced Appreciation	3	3	3
Upper Division Art Electives	3	3	21
† Art 120—Advanced Drawing or			
Art 121—Advanced Figure Drawing	3	3	-
Art 123—Advanced Landscape Drawing	3	3	-
† Art 127—Advanced Water Color or			
Art 128—Advanced Oil Painting	3	3	-
† Art 140—Advanced Crafts or			
Art 141—Advanced Crafts	3	3	-
Educ. 113—Psychological and Social Foundations of Education	5	5	-
Educ. 153—Audio-Visual Education	2	2	-
Educ. 175—Core Course in Secondary Education	5	5	-
Educ. 190A—Elementary School Art	-	2	-
Educ. 195A—The Teaching of Art	2	2	-
Educ. 320C—Directed Teaching—Elementary School Art	-	2	-
Educ. 340A—Directed Teaching—Secondary School Art	-	3	-
Completion of upper division art requirements for a minor.			
Electives to total	120	120	120
Total upper division required	40	40	40
Total required outside field of art	60	80	60
Scholarship requirements			
In all work taken	1.00	1.00	1.00
In major and minor	1.00	1.00	1.00
In each education course taken	1.00	1.00	
For admission to Graduate Division :			
In major	1.5		
In all upper division work taken	1.5		

Graduate Year (General Secondary Only)

Graduate course in art	3
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Major or minor or electives (Upper Division or Graduate courses) to total at least	30
Scholarship Requirement (all work in the Graduate Year)	1.75

* The student who expects to transfer to another institution for upper division work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† The student must study in the area not covered in his lower division course. For example, if he has taken Art 20A in the lower division, he should take Art 121 in the upper division.

TWO-YEAR TERMINAL CURRICULUM IN PHOTOGRAPHY

RECOMMENDED SEQUENCE

Freshman Year

	Sem. 1	Sem. 2
Art 1 (Art Structure) -----	2	—
Art 10 (Design) -----	—	3
Art 45 (Lettering) -----	3	—
Art 50 (Elementary Photography) -----	—	2
Chemistry 1A (General College Chemistry) -----	5	—
English 1A-1B (First-year Reading and Composition) -----	3	3
Health & Hygiene 1 (Personal Hygiene) -----	—	2
Social Science -----	3	3
P. E. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
Elective -----	—	2
	16 $\frac{1}{2}$	15 $\frac{1}{2}$

Sophomore Year

	Sem. 1	Sem. 2
Art 2 (Art History) -----	3	—
Art 51 (Advanced Photography) -----	2 or 3	—
B.A. 2A (Typewriting) -----	—	2
B.A. 14A (Accounting) -----	3	—
Jr. 29 (Press Photography) -----	1	—
P. E. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 2A-2B (General Physics Lectures) -----	3	3
History 70 (United States History) -----	2	—
Pol. Sci. 51 (American Constitutional Government) -----	—	2
Psychology 1 (General Psychology) -----	—	3
Speech 1 (Fundamentals of Speech) -----	—	3
Speech 25 (Dramatic Workshop—Lighting) -----	—	2
	14 $\frac{1}{2}$	15 $\frac{1}{2}$

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
12 units of lower division art	6 units of lower division art	Drawing or painting— 3 units
12 units of upper division art (To be selected in consultation with the instructor)	6 units of upper division art	Plus courses approved by the art faculty— 18 units (At least 6 units must be in upper division)
Total units required 24 units	12 units	21 units

Additional requirements for the Junior High School Credential are given in detail on pages 50-51.

A liberal arts group major which includes art may be arranged in consultation with the student's adviser and the Registrar's office. See page 149.

DESCRIPTION OF COURSES

Lower Division

1. Art Structure **2 units**
Introduction to art through a series of assigned experiments embracing the major divisions of the space art fields. This course is designed to give the student a broad general view of the fields of artistic expression. Art majors not eligible.
Two one-hour periods per week.

2. Art History and Appreciation**3 units**

A historical study of the development of art from prehistorical times to the Renaissance.

Three one-hour periods per week.

3. Art Appreciation**3 units**

See Art 103.

10. Design**3 units**

A study of the elements of design and their applications to the commercial and fine art fields.

Three one-hour periods per week.

20A-20B. Fundamentals of Drawing**3-3 units**

Training in the fundamentals of drawing: form, space, organization and composition. Stress is placed on various drawing materials and techniques.

Two two-hour periods per week.

21A-21B. Figure Drawing**3-3 units**

The study of form and composition from the human figure.

Two two-hour periods per week.

22. Nature Drawing**1 unit**

Precision drawing in varied media from objects in nature. Adapted to the needs of botany, premedical and other science students.

One two-hour period per week.

23A-23B. Landscape Drawing**3-3 units**

The study of form and composition from landscape, including a study of perspective.

Two two-hour periods per week.

25. Color**3 units**

An analysis and use of the phenomena of pigmentary colors. This course is designed to prepare the student for further work in painting, design, interior decoration, and dress design.

Two two-hour periods per week.

27A-27B. Water Color Painting**3-3 units**

The study of water color painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.

Three two-hour periods per week.

28A-28B. Oil Painting**3-3 units**

The study of oil painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.

Three two-hour periods per week.

† 30. Art Anatomy**3 units**

Analysis of the skeletal and muscular structure of the human figure in terms of action, form, and methods of representation with a view to preparing the student for advanced drawing, painting, and sculpture.

Three one-hour periods per week.

† 32. Sculpture**3 units**

The study of sculpture and methods through practical experiments by means of simple sculpture problems. Work will be executed in wood, cement, clay, plaster, and other materials.

Prerequisite: Any two of the following: Art 10, 20, 21, 23, 25, 27, 28, or 30.

† Given if sufficient demand.

- 40. Crafts (fall)** **3 units**
 Introduction to craft methods through problems in leather, book binding, and other projects. Course content is adapted to the needs of the class.
 Two two-hour periods per week.
- 41. Crafts (spring)** **3 units**
 Introduction to craft media and methods through problems in block printing, silk screen, and stencilling.
 Prerequisite: Any one of the following courses: Art 10, 20, 21, 23, 25, 27, 28, or 45.
 Two two-hour periods per week.
- 45. Lettering** **3 units**
 Practice in the use of lettering tools, the study of basic alphabets, and an introduction to the principles of advertising layout.
 Three one-hour periods per week.
- 50. Elementary Photography (spring)** **2 units**
 Lectures on the optical principles, the chemistry of printing and developing, the technique of exposure. Laboratory work includes practice in dark-room techniques.
 One one-hour lecture and one three-hour laboratory period per week.
- 51. Advanced Photography (fall, spring)** **2 or 3 units**
 Qualified students undertake work along various specialized lines.
 Prerequisite: Art 50 and consent of the instructor.
 Hours to be arranged.

Upper Division

- 103. Advanced Appreciation** **3 units**
 A course in art appreciation beginning in the 18th Century and extending into contemporary times. The space arts are correlated with the other arts by means of listening periods (recordings), slide lectures, and related reading. Students who are not majoring in art may take the course without its prerequisites, either as Art 3 or as Art 103.
 Three one-hour periods per week.
- † 110. Advanced Design** **3 units**
 An advanced study of the elements of design, including problems applied to pottery, textile design, painting, etc.
 Prerequisite: Art 10.
 Three one-hour periods per week.
- 120A-120B. Advanced Drawing** **3-3 units**
 Continuation of the study of form and composition in still life, figure, and landscape.
 Prerequisite: Any one of the following courses: Art 20, 21, 22, 23.
 Two two-hour periods per week.
- 121A-121B. Advanced Figure Drawing** **3-3 units**
 Continuation of the study of figure construction.
 Prerequisite: Any one of the following courses: Art 20, 21, 22, 23.
 Two two-hour periods per week.
- 123A-123B. Advanced Landscape Drawing** **3-3 units**
 Continuation of the study of landscape composition.
 Prerequisite: Any one of the following courses: Art 20, 21, 22, 23.
 Two two-hour periods per week.

† Given if sufficient demand.

- 127A-127B. Advanced Water Color** **3-3 units**
 Advanced water color painting including problems in still-life, landscape, and figure.
 Prerequisite: Art 27 or 28.
 Two two-hour periods per week.
- 128A-128B. Advanced Oil Painting** **3-3 units**
 Advanced oil painting including problems in still-life, landscape, and figure.
 Prerequisite: Art 27 or 28.
 Two two-hour periods per week.
- † 132. Advanced Sculpture** **3 units**
 Prerequisite: Art 32 or consent of the instructor.
- 140. Advanced Crafts** **3 units**
 Prerequisites: Art 10 and 40.
- 141. Advanced Crafts** **3 units**
 Prerequisites: Art 10 and 41.
- 145. Advanced Lettering** **3 units**
 A study of techniques and methods used in showcard writing and fine lettering for reproduction. Course problems include layouts in color with illustrations.
 Prerequisites: Art 10, 20A or 21A, and 45.
- 148. Ceramics** **2 units**
 See I. E. 105.
- 180. Art Workshop** **1-3 units**
 A class in which the student can develop individual interests in three-dimensional or space design and construction. This class is aimed to help the student interested in teaching stage design, industrial design, and display work.
 Prerequisites: Any two of the following courses: Art 2, 3, 10, 20, 21, 23, 25, 27, 28, 32, or 45.
 Three to nine hours per week.
- 190. Elementary School Art** **2 units**
 (See Education 190A).
 For prospective teachers. Theory and practice in the use of art in the elementary schools. Covers the philosophy of art, and practical exercises in its uses from kindergarten through junior high school. (Not applicable toward a minor in art.)
 Two one-hour periods per week in addition to activity periods.
- 195. The Teaching of Art (Secondary)** **2 units**
 (See Education 195A.)

Graduate Division

- 220. Drawing** **3 units**
 Advanced study of individual problems in various media, a study of form and composition in still-life, figure, and landscape.
- 227. Painting** **3 units**
 The student will work in the paint medium of his own choosing, under the supervision and criticism of the instructor.
- 240. Crafts** **3 units**
 Individual study of problems in various craft media.
- 245. Lettering** **3 units**
 Special problems in lettering layout and advertising design.
- 299. Special Problems in Art** **3 units**

† Given if sufficient demand.

HOME ECONOMICS

<i>Requirements for the A.B. Degree With Major in Home Economics</i>	<i>Special secondary credential</i>	<i>Liberal Arts* (without a teaching credential)</i>
Lower Division		
	<i>Units</i>	<i>Units</i>
H.E. 1A—Clothing Construction -----	3	3
H.E. 1B—Clothing Construction -----	3	-
H.E. 7—Textiles -----	2	2
H.E. 10A—Food Study -----	3	3
H.E. 10B—Food Study -----	3	-
H.E. 20—Nutrition -----	2	2
Art 1—Art Structure -----	2	2
Art 10—Design -----	3	3
Art 25—Color -----	3	3
Engl. 1A-1B—First-year Reading and Composition -----	6	6
H.H. 1—Personal Hygiene -----	2	2
H.H. 50—Home Nursing -----	2	-
Chem. 1A—General College Chemistry -----	5	5
Chem. 8—Organic Chemistry -----	3	3
Bact. 1—General Bacteriology -----	5	5
Or. II—Orientation II -----	1	-
P.E. Activities (including P.E. 15) -----	2	2
Psych. 1—General Psychology -----	3	3
Econ. 1A—Principles of Economics -----	3	3
Soc. 1A-1B—Introduction to Sociology -----	6	6
Soc. Sci.—Electives (See page 37) -----	3	3
Fulfillment of requirement in United States history and constitution. (See page 37.)		
Math. A-B—Elementary Algebra and Plane Geometry, if not taken in high school.		
Completion of lower division requirements for a minor. (See list on page 39.)		
Lower Division electives to total -----		60
Upper Division		
H.E. 111—Advanced Meal Planning and Serving -----	2	-
Upper Division Home Economics Electives -----	22	24
Educ. 113—Psychological and Social Foundations of Education -----	5	-
Educ. 153—Audio-Visual Education -----	2	-
Educ. 175—Core Course in Secondary Education -----	5	-
Educ. 195HE—The Teaching of Home Economics -----	2	-
Educ. 320C—Directed Teaching—Elementary School Home Economics -----	2	-
Educ. 340A—Directed Teaching—Secondary School Home Economics -----	3	-
I.E. 103—Art of House Design -----	3	-
Physiol. 101—Human Physiology (recommended) -----	(5)	(5)
Completion of upper division requirements for a minor.		
Electives to total -----	120	120
Total upper division required -----	40	40
Total required outside field of Home Economics -----	80	60
Scholarship Requirements:		
In all work taken -----	1.00	1.00
In major and minor -----	1.00	1.00
In each education course taken -----	1.00	-

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

REQUIREMENTS FOR

<i>Junior High School Major in Home Economics</i>	<i>Minor in Home Economics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	A minimum of 20 units in courses approved by the home economics faculty. (At least 6 units must be in the upper division)
H.E. 1A----- 3 units	H.E. 1A----- 3 units	
H.E. 7----- 2 units	H.E. 7----- 2 units	
H.E. 10A-10B_ 6 units	H.E. 11----- 2 units	
H.E. 11----- 2 units	H.E. 20----- 2 units	
H.E. 20----- 2 units	Upper Division	
Upper Division	9 units chosen from:	
12 units chosen from:	H.E. 101A__ 3 units	
H.E. 101A__ 3 units	H.E. 130___ 3 units	
H.E. 130___ 3 units	H.E. 140___ 3 units	
H.E. 140___ 3 units	H.E. 150___ 2 units	
H.E. 150___ 2 units	H.E. 160___ 3 units	
H.E. 160___ 3 units	H.E. 165___ 3 units	
H.E. 165___ 3 units	—	
Total units required -----27 units	18 units	20 units

Additional requirements for the Junior High School Credential are given in detail on pages 50-51.

A liberal arts group major which includes Home Economics may be arranged in consultation with the student's adviser and the Registrar's office. See page 149.

DESCRIPTION OF COURSES

Lower Division

A. Introduction to Home Economics 1 unit

An overview of the Home Economics field, and the many ways in which it may serve any individual; information which may lead into vocational goals or develop an appreciation of a higher standard of living. (Open to both men and women and recommended for freshmen.)

One one-hour period per week.

1A-1B. Clothing Construction (year) 3-3 units

First semester: Laboratory work directed towards the development of good technique in clothing construction processes; use of cotton, linen, and rayon fabrics in making garments.

Second semester: Continuation of the work of the first semester. Development of more difficult technique in construction, alteration, and designing of garments. Emphasis on use of woolen fabrics and on original design.

One one-hour lecture and two three-hour laboratory periods per week.

1A is not prerequisite to 1B.

5. Home Crafts 2 units

The use of leisure time in designing and creating beautiful objects for the home. Instruction in art needlework and flower arrangements. This is an elective course with no prerequisites.

Two one-hour periods per week.

7. Textiles Selection 2 units

Consumer problems in textile selection of clothing and household fabrics. Identification of the major and minor fibers; laboratory tests on fibers; scientific principles applied to the care and treatment of fabrics. Open to all.

Two one-hour periods per week.

10A-10B. Food Study (year)

3-3 units

First semester: The composition and preparation of foods; food experiments; analysis of recipes and cookery processes and their application to meal preparation.

Second semester: Continuation of the work of the first semester. Emphasis on the planning, marketing, preparing, and serving of meals.

Prerequisite: Chemistry 1A (consult with instructor).

Two one-hour lectures and two two-hour laboratory periods per week.

11. Meal Planning and Serving

2 units

Meal planning, preparation and serving of all three daily meals. Special appointments for various occasions, including an appreciation for acceptable etiquette and table decorations. Emphasis on relative costs and nutritive values, and on time and energy conservation.

One one-hour lecture and one three-hour laboratory period per week.

20. General Nutrition

2-3 units

A study of nutrition with emphasis on human requirements, best selection of foods for individuals and families, and economy meals. Practice in food preparation and menu planning.

Pre-nursing students are required to include the laboratory work.

Two one-hour periods per week, plus an optional three-hour laboratory period.

Upper Division

101. Advanced Clothing and Design

3 units

Advanced garment construction to acquire skills and time-saving techniques. For majors and minors in home economics.

One one-hour lecture and two three-hour laboratory periods per week.

Prerequisite: H.E. 1A-1B.

111. Advanced Meal Planning and Serving

2 units

One one-hour lecture and one three-hour laboratory period per week.

Prerequisite: Upper Division standing and consent of instructor. Students who have had Home Economics 11 are not eligible to enroll in this course.

120. Dietetics

3 units

The fundamentals of human nutrition and the nutritive properties of foods with application to the feeding of individuals and special groups; dietaries on limited incomes. Introductory problems in diet therapy.

Prerequisite: H.E. 10A-10B and 20.

Two one-hour lectures and one three-hour laboratory period per week.

130. Home Management

3 units

The evaluation of time, energy, and money in performing routine tasks in the care of the family, meals, laundry, services, special cleaning, entertaining and working for satisfaction in attaining a relative set of values in homemaking.

Three one-hour periods per week, supplemented by actual home living practices.

140. Home Furnishings

3 units

The house, its furnishings, equipment, interior decoration and arrangement, to satisfy varied family needs and interests.

Prerequisite: Art 1 and 10; Industrial Education 103 strongly recommended.

Three one-hour periods per week.

150. Child Care and Training

2 units

Observation and participation in the care and training of the pre-school child. Emphasis upon the establishing of desirable physical, mental, social, and emotional behavior of children as individuals and in groups.

160. Family Relationships

3 units

See Sociology 160.

165. Family Economics**3 units**

Special problems in personal and family finances involving the evaluation of home production and consumption of goods and services; expenditures for essentials and luxuries as related to desired goals of health, ambition, and a satisfactory standard of happy home life.

Three one-hour periods per week.

190. Homemaking Problems in the Elementary School**2 units**

This course is designed to acquaint the elementary teacher minoring in home economics with homemaking procedures that can be adapted for use in the upper grades or junior high school in correlation with a given unit of work. Not applicable toward a minor in home economics.

Two one-hour periods per week.

199. Special Problems in Home Economics Education**1-3 units**

A flexible arrangement designed to meet the individual needs and interests of the major of upper division standing. Each person must have approval of the home economics staff.

INDUSTRIAL EDUCATION

<i>Suggested Program for</i>	<i>Pre-special * secondary credential</i>	<i>Two-year program in drafting</i>
Lower Division		
	<i>Units</i>	<i>Units</i>
Art 1—Art Structure	2	-
Art 2—Art History and Appreciation.....	-	3
Art 10—Design	3	3
Art 20A—Fundamentals of Drawing or 21A—Drawing and Composition.....	-	3
Art 45—Lettering	3	3
Art 50—Elementary Photography	2	-
Engr. 1A-1B—First-year Reading and Composition.....	6	6
Engr. 1A-1B—Plane Surveying	-	6
Engr. 22—Engineering Drawing	2	2
Engr. 23—Descriptive Geometry	-	2
Engr. 24—Advanced Engineering Drawing.....	-	2
Engr. 40—Engineering Metallurgy	3	-
H.H. 1—Personal Hygiene	2	-
I.E. 5—Pottery	3	-
I.E. 6—Cement and Concrete Work.....	2	-
I.E. 7A—Mechanical Drawing	2	2
I.E. 12—Metal Arts	3	-
I.E. 13—Architectural Drafting	-	2-3
I.E. 50—Introduction to Radio.....	3	-
I.E. 51—Fundamentals of Industrial Education.....	3	-
Math. C—Trigonometry	-	3
Math. D—Intermediate Algebra	-	3
Chem. 1A—General College Chemistry.....	5	-
Phys. 2A-2B—General Physics	-	6
Nat. Sci.—Electives	7	-
P.E. Activities (including P.E. 5).....	2	2
Psych. 1—General Psychology	3	3
Hist. 70—History of the United States.....	2	2
Pol. Sci. 51—American Constitutional Government.....	2	2
Soc. Sci. Electives (including one-year course).....	8	-
Speech 1—Fundamentals of Speech.....	3	-
Electives	-	2
Upper Division		
Educ. 113—Psychological and Social Foundations of Educa- tion	5	-
Educ. 115—Measurement in Education.....	2	-
Educ. 175—Core Course in Secondary Education.....	5	-
I.E. 101—Advanced Woodworking	3	-
I.E. 123—Pattern Making and Theory of Foundry Practice....	3	-

* From two to three years' work for this credential may be taken in this College; the remainder of the program must be taken in an institution authorized to issue this credential. The student should consult the specific requirements of the institution to which he expects to transfer. From one and one-half to two years would probably be required in the terminal institution to complete the requirements for this credential.

REQUIREMENTS FOR
Junior High School Major in Industrial Education

Lower Division	Ind. Educ. 7A-----	2 units
	Ind. Educ. 51 ¹ -----	3 units
	Additional Lower Division	
	Ind. Educ.-----	7 units
Upper Division	Ind. Educ. 101-----	3 units
	Ind. Educ. 130-----	2 units
	Additional Upper Division	
	Ind. Educ.-----	7 units
Total units required		24 units

Additional requirements for the Junior High School Credential are given in detail on pages 50-51.

A liberal arts group major which includes Industrial Education may be arranged in consultation with the student's adviser and the Registrar's office. See page 149.

Minors in Industrial Education

<i>General Elementary</i>		<i>Junior High School and Secondary</i>
Lower Division----	Ind. Educ. 15 or 51 ¹ ---- 3 units	A minimum of 20 units in courses approved by the instructor. (At least 6 units must be in the upper division)
	Electives (may include Art 40 or 41) ----- 3 units	
Upper Division----	Ind. Educ. 190 (men only) ----- 2 units	
	Electives ----- 4-6 units	
Total units required		20 units

¹ Industrial Education 51 will be waived as a subject requirement for students who have had two years of high school manual training.

DESCRIPTION OF COURSES

Lower Division

5. Pottery (fall) 2-3 units

A course in an interesting and age-old industry. Designing, casting, throwing, modeling, glazing, and firing.

Two or three three-hour periods per week.

- †6. Cement and Concrete Work (spring) 2 units

Theory and practical application of concrete work, including ornamental cement.

Two three-hour periods per week.

- 7A. Mechanical Drawing (fall, spring) 2 units

A fundamental course in mechanical drawing which covers orthographic, isometric, and cabinet projections, intersection of solids, sections, screws and threads, cams, blue prints, etc.

Three two-hour periods per week.

9. Stone Polishing and Plastics (spring) 2-3 units

In this course an age old art is united with a very modern one. Stone cutting has been practiced for many years; plastic is very modern, but has many possibilities. The combination of the two subjects makes an interesting study.

Two or three three-hour periods per week.

- †12. Metal Arts (spring) 3 units

The application and use of various metals. Hammering of copper, grinding of stones, casting, silver plating, soldering, enameling.

Three three-hour periods per week.

† Given if sufficient demand.

- 13. Architectural Drafting (spring) 2-3 units**
 A beginning course in the fundamentals of house design. Floor plans, elevations, perspective drafting, and architectural detail. A course in mechanical drawing either in high school or college is advisable as background.
 Two or three three-hour periods per week.
- 15. Crafts in the Elementary Schools (fall, spring) 3 units**
 A course in the use of native materials and waste products applicable to the elementary grades. Magazine binding, waste-basket making, weaving, toy making, and pottery are some of the kinds of work done.
 Three one-hour class periods and six hours of outside work per week.

- 16. Toycraft 2-3 units**
 This course is planned for those students who are interested in child life and the many ingenious toys that it is possible to make for children.
 Two or three three-hour periods per week.

- 50. Introduction to Radio (fall) 3 units**
 Sound and radio waves. Theory and operation of oscillators, amplifiers, rectifiers, frequency meters, vacuum tubes, cathode ray oscilloscopes, and continuous wave radiation equipment. Laboratory work in circuit design, testing, and operation.
 One lecture and two three-hour laboratory periods per week.

- 51. Fundamentals of Industrial Education (fall, spring) 3 units**
 The fundamentals of industrial education in terms of teaching industrial arts in the elementary grades. Covers methods, courses of study, construction of objects of the elementary grades level, and care and use of equipment.
 Three three-hour periods per week.

Upper Division

- 101. Advanced Woodworking (spring) 2-3 units**
 Building of boats, airplane gliders, and large pieces of similar nature.
 Prerequisite: Industrial Education 51 or its equivalent.
 Two or three three-hour periods per week.

- 103. The Art of House Design (fall) 2-3 units**
 A thorough-going study of home planning and building in which an entire house is planned in structure and furnishings.
 Prerequisite: Industrial Education 13.
 Two or three three-hour periods per week.

- 105. Advanced Pottery (fall) 2 units**
 Study of the problems involved in pottery making, from the standpoint of both teaching and business. Designing, decorating, throwing, packing, firing of the kiln are a few of the subjects studied.
 Prerequisite: Industrial Education 5.
 Two three-hour periods per week.

- 106. Glaze Composition and Research 3 units**
 A study of the composition of glazes used in ceramics. Students will conduct research in the compounding and making of new glazes in relation to the various clays used in pottery making.
 Prerequisite: Industrial Education 105.
 Two three-hour periods per week.

- 107. Advanced Mechanical Drawing (spring) 2 units**
 See Engineering 24. Upper division students may receive upper division credit by doing an additional problem.

- †112. **Advanced Metal Arts** (spring) 2-3 units
An advanced study of the work offered in Industrial Education 12. Practice in the use of pewter, aluminum, silver, bronze, and other metals.
Prerequisite: Industrial Education 12.
Two or three three-hour periods per week.
- †113. **Machine Shop** 3-3 units
See Engineering 40-41.
- †114. **Sheet Metal** 3 units
Sheet metal pattern drafting and layout. Instruction in the fundamental hand and machine tool operations involved in sheet metal work.
Prerequisite: Industrial Education 7A.
One lecture and two three-hour periods per week.
- †123. **Pattern-Making and the Theory of Foundry Practice** (fall) 3 units
The basic principles of foundry practice and pattern-making. The construction of simple patterns, and casting in softer metals.
Prerequisite: Industrial Education 51 or its equivalent.
Three three-hour periods per week.
- †124. **Advanced Cabinet and Other Wood Construction** (fall) 2-3 units
Advanced course in woodwork designed for students interested in teaching or in problems of advanced construction.
Prerequisite: Industrial Education 101.
Two or three three-hour periods per week.
- †125. **Carpentry** (spring) 3 units
House construction in which houses in miniature are built to illustrate construction problems. Recommended as a suitable course to follow Industrial Education 103.
Prerequisite: Industrial Education 51 or its equivalent.
Three three-hour periods per week.
- †130. **Industrial Arts Design** (spring) 2 units
Theory and practice in the designing of objects in the industrial arts and their decoration.
Prerequisite: Industrial Education 7A.
Two one-hour lecture and two two-hour laboratory periods per week.
150. **Radio** 3 units
See Industrial Education 50.
- †190. **Management of School Shops** (spring) 2 units
The objectives, methods, and content of shop programs for the grade schools. Intended for students majoring in Industrial Education.
Prerequisite: Industrial Education 51 and upper division status.
Two one-hour periods per week.

† Given if sufficient demand.

MUSIC

Requirements for the A.B. Degree With Major in Music

<i>Requirements for the A.B. Degree With Major in Music</i>	<i>General</i>	<i>Special</i>	<i>Liberal Arts *</i>
	<i>Secondary</i> <i>Credential</i>	<i>Secondary</i> <i>Credential</i>	(Without a teaching Credential)
Lower Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Mus. 11A-11B—Ear Training and Sight Singing	4	4	4
Mus. 11C—Advanced Ear Training and Sight Singing -----	2	2	--
Mus. 20A-20B—Harmony -----	6	6	6
Mus. 21A-21B—Advanced Harmony -----	6	6	6
Applied Music -----	4	4	2
Music Activities -----	2	2	--
†Mus. 71—Strings -----	(2)	(2)	--
†Mus. 72—Brass Instruments -----	(2)	(2)	--
†Mus. 73—Woodwinds -----	(2)	(2)	--
Engl. 1A-1B—First-year Reading and Composition -----	6	6	6
Phys. 15—Physics of Sound and Color -----	3	3	3
Nat. Sci.—Electives (See page 37.) -----	9	9	9
Or. II—Orientation II -----	1	1	--
P.E. 5 or 15—Freshman Physical Activities-----	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
P.E. 33—Folk Dances -----	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
P.E.—Activities -----	1	1	1
Psych. 1—General Psychology -----	3	3	3
Soc. Sci.—Electives (including one Year-Course) (See page 37.) -----	12	12	12
Fulfillment of requirement in United States history and constitution. (See page 38.)			
Math. A-B—Elementary Algebra and Plane Geometry if not taken in high school.			
Completion of lower division requirements for a minor. (See lists on page 39.)			
Lower Division Electives to total -----			60

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† Music majors usually enter college with some basic knowledge of orchestral instruments. On the basis of an examination, these students will be excused from Music 71, 72, and 73. Students who have not had training in these fields or who fail to make a satisfactory score on the qualifying examination will be required to enroll in these courses which must be taken in addition to the 120 semester units required for the A.B. degree.

Requirements for the A.B. Degree With Major in Music	Liberal Arts		
	General Secondary Credential	Special Secondary Credential	(Without a teaching Credential)
Upper Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Mus. 101-102—Music History -----	6	6	6
Mus. 123—Counterpoint and Composition -----	2	2	2
Mus. 124—Form and Analysis -----	2	2	2
Mus. 131—Instrumental Arranging -----	2	2	--
Mus. 141—Instrumental Conducting -----	2	2	--
Mus. 146—Choral Conducting -----	2	2	--
Applied Music -----	4	4	4
Music Activities -----	2	2	--
Electives—Upper Division Music -----	--	--	10
Educ. 113—Psychological and Social Foundations of Education -----	5	5	--
Educ. 153—Audio-Visual Education -----	2	2	--
Educ. 175—Core Course in Secondary Education -----	5	5	--
Educ. 190M—Elementary School Music -----	--	2	--
Educ. 195M—The Teaching of Music -----	2	2	--
Educ. 320C—Directed Teaching— Elementary School Music -----	--	2	--
Educ. 340A—Directed Teaching— Secondary School Music -----	--	3	--
Completion of upper division requirements for a minor.			
Electives to total -----	120	120	120
Total upper division required -----	40	40	40
Total required outside field of music -----	60	80	60
Scholarship Requirements:			
In all work taken -----	1.00	1.00	1.00
In major and minor -----	1.00	1.00	1.00
In each education course taken -----	1.00	1.00	
For admission to Graduate Division:			
In major -----	1.5		
In all upper division work taken -----	1.5		
Graduate Year (General Secondary Credential Only)			<i>Units</i>
Music 299—Seminar in Music Problems -----			3
Educ. 265—Guidance in Education -----			2
Educ. 275—Seminar in Secondary Education -----			2
Educ. 340A-340B—Directed Teaching in the Secondary School -----			6
Major or minor or electives (Upper Division or Graduate courses) to total at least -----			30
Scholarship requirement (all work in Graduate Year) -----			1.75

PERFORMANCE TESTS

In addition to the subject and scholarship requirements listed above, the State Department of Education has prescribed the following standards of performance which must be met by candidates for both the General and the Special Secondary Credentials:

- I. **PIANO:** Ability to play a Bach two-part invention, an artistic accompaniment, and four-part hymns at sight.
- II. **VOICE:** Ability to sing at least one song representative of each of the following periods of vocal literature:

Classical period
Romantic period
Modern period

Ability to sing at sight any part of a four-part hymn.

III. CONDUCTING: Ability to train changed and unchanged voices; to conduct an open four-part score; to tune, adjust, and demonstrate the fingering of any instrument of the orchestra; to play the major scale of the instrument one octave on at least one representative instrument of each section of the orchestra; and to conduct from an orchestral score.

REQUIREMENTS FOR
Junior High School Major

Lower Division -----	Music 11A-11B -----	4 units
	Music 20A-20B -----	6 units
	Music 21A-21B -----	6 units
	† Music 71, 72, or 73 (two courses) -----	4 units
	Music Activities and Class Lessons -----	3 units
Upper Division -----	Music 101-102 -----	6 units
	Music 141 -----	2 units
	Music 146 -----	2 units
	Music 190 -----	2 units
	Music Activities and Class Lessons -----	4 units
Total units required -----		39 units

† The student should select two orchestral fields in which he has not had previous training.

A liberal arts group major which includes music may be arranged in consultation with the student's adviser and the Registrar's office. See page 149.

Additional requirements for the Junior High School Credential are given in details on pages 50-51.

Teaching Minors for All Credential Candidates

Lower Division ----	Piano Test	
	Music 11A-11B -----	4 units
	Music 20A-20B -----	6 units
Upper Division ----	Music 101-102 -----	6 units
	Plus courses approved by the music faculty -----	6 units
Total Units Required		22 units

Minors for Non-Credential Candidates

Musicology Minor Vocal or Instrumental Minor

Lower Division ----	Music 3, 4 -----	6 units	Music 3, 4 -----	6 units
	Music 50, 51, 58, 59, 60, or 65 -----	4 units	Applied Music (Voice or an Instrument) -----	2 units
			Music Activities (in field of emphasis) -----	2 units
Upper Division ----	Music 101, 102 -----	6 units	Applied Music and Activities (in field of emphasis) -----	4 units
			Electives -----	2 units
Total Units Required		16 units		16 units

DESCRIPTION OF COURSES**Lower Division**

- 3-4. Music Appreciation (year)** **3-3 units**
 Music history and appreciation designed for students who are not majoring in music, but wish to know more about music as a part of their general education. Music correlated with the other arts through lectures and recordings.
 Three one-hour periods per week.
- 10. Musicianship (fall, spring)** **3 units**
 Elementary work in ear training, sight singing, and piano keyboard; designed to give the fundamentals of music in a direct and concise manner.
 Required for all students working toward a teaching credential. Music majors not eligible.
 Three one-hour periods per week.
- 11A-11B. Ear Training and Sight Singing (year)** **2-2 units**
 Designed to give a thorough foundation in pitch, rhythm, and harmony in the major and minor modes. These elements are presented through rhythmic and melodic dictation, sightsinging, and melodic writing.
 Two one-hour periods per week.
- 11C. Advanced Ear Training and Sight Singing (fall)** **2 units**
 Advanced work in harmonic ear training. Training in complex rhythms and chromatically altered melodies.
 Prerequisite: Music 11A-11B.
 Two one-hour periods per week.
- 20A-20B. Harmony (year)** **3-3 units**
 Harmonization of melodies; scales, intervals, triads, the dominant seventh, non-harmonic tones, simple modulations, secondary seventh chords; keyboard harmony.
 Three one-hour periods per week.
- 21A-21B. Advanced Harmony (year)** **3-3 units**
 Essentials of advanced harmony embracing chromatic alterations, modulations by means of altered chords, use of all nonharmonic tones, original compositions, keyboard work.
 Prerequisite: Music 20A-20B.
 Three one-hour periods per week.
- 70A-70B. Piano (fall, spring)** **1-1 unit**
 Class instruction open to any student who has a desire to learn to play the piano. No preliminary knowledge of piano is needed.
 One one-hour period per week, with outside practice required.
- 70C-70D. Intermediate Piano (fall, spring)** **1-1 unit**
 Class instruction open to any student who has had the equivalent of Music 70A-B.
 One one-hour period per week, with outside practice required.
- *71. Strings (fall)** **1-2 units**
 Violin, viola, 'cello, string bass. Study and practice of one or more of the string instruments supplemented by a study of arranging for string instruments, teaching methods, and the elementary physics of sound.
 Two one-hour periods per week.
- *72. Brass Instruments (spring)** **1-2 units**
 Tone production, breathing, transposition, physics of sound, and arranging for brass instruments will be briefly covered in addition to the study of the instruments.
 Two one-hour periods per week.
- *73. Woodwinds (fall)** **1-2 units**
 The problems of embouchure, breathing, care of the instrument, physics of sound, transposition, and elementary arranging will be covered. Each student will play one or more of the woodwind instruments, with additional theoretical study.
 Two one-hour periods per week.

* Candidates for the General or the Special Secondary Credential in Music may not receive degree credit in these courses. They may be waived on the basis of an examination. Music minors are required to take only the first nine weeks' work in at least two of these courses.

- 75A-75B. Beginning Violin** (fall, spring) 1-1 unit
 Class instruction open to any student who has a desire to learn to play the violin.
 Prerequisite: Music 71 or equivalent.
 One one-hour period per week, with outside practice required.
- 75C-75D. Intermediate Violin** (fall, spring) 1-1 unit
 Class instruction in violin open to any student who has had the equivalent of Music 75B.
 One one-hour period per week, with outside practice required.
- 76A-76B. Voice** (fall, spring) 1-1 unit
 Elementary class instruction in voice, designed to help students improve tone quality and musicianship of their singing.
 One one-hour period per week, with outside practice required.
- 76C-76D. Intermediate Voice** (fall, spring) 1-1 unit
 Class instruction open to any student who has had the equivalent of Music 76A-76B.
 One one-hour period per week, with outside practice required.

Upper Division

- 101-102. Music History** (year) 3-3 units
 A chronological study of vocal and instrumental music from plainsong through modern music. Lectures integrating the history of music with other arts and general thought of the time. Music presented through recordings.
 Three one-hour periods per week.
- 123. Counterpoint and Composition** (fall) 2 units
 Strict counterpoint in all orders. Two-, three-, and four-part writing.
 Two one-hour periods per week.
 Prerequisite: Music 21A-21B.
- 124. Form and Analysis** (spring) 2 units
 Review of simple part-forms and study of complex forms with analysis based on the principles of repetition and contrast.
 Two one-hour periods per week.
 Prerequisite: Music 123.
- 131. Instrumental Arranging** (fall) 1-2 units
 A practical course in arranging music for various combinations of instruments, with special reference to school orchestras. To be taken in senior year.
 Prerequisite: Music 70, and consent of the instructor.
 Two one-hour periods per week.
- 141. Instrumental Conducting** (spring) 2 units
 Baton and rehearsal technique; the problems associated with various kinds of instrumental organizations; program building; principles of interpretation.
 Two one-hour periods per week.
- 146. Choral Conducting** (spring) 2 units
 Same as Music 141 but applied to choral singing.
 Two one-hour periods per week.
- 170. Advanced Piano** (fall, spring) 1-1 unit
 Class instruction open to any student who has had the equivalent of Music 70C-70D.
 One one-hour period per week, with outside practice required.
- 176. Advanced Voice** (fall, spring) 1-1 unit
 Class instruction open to any student who has had the equivalent of Music 76C-76D.
 One one-hour period per week, with outside practice required.

190. Elementary Music Education (fall) 2 units

(See Education 190M.)

Survey of the field of public school music and practical devices for teaching music in the public school from the first grade through the junior high grades. Covers the philosophy of music and practical devices for teaching such phases as rhythm, singing, creative expression, music-listening, and playing of simple instruments.

Prerequisite: Music 10 or equivalent, and one year of Chorus or A Cappella Choir. Music 70B is strongly recommended.

195. The Teaching of Secondary School Music (spring) 2 units

(See Education 195M.)

The objectives, methods, and materials for the choral, instrumental, and general music teacher on the secondary level. A review of conducting, accompanying, and other applied music as related to the teaching of specific materials. Observation and demonstrations.

Two one-hour periods per week.

199. Special Problems in Music 2-3 units

Research in one of the more specialized aspects of music which might include, among others, the evolution and development of forms, theoretical systems, contemporary idioms, evaluation and comparison of textbooks, recent trends in the teaching of elementary and secondary school music.

Prerequisite: Consent of the instructor.

Two or three one-hour periods per week.

Graduate Division**299. Seminar in Music Problems 3 units**

Research in special problems of music, the field of investigation in each instance subject to preparation and special interests of the individual student.

Three one-hour periods per week.

Musical Organizations**50-150. Orchestra (fall, spring) 1 unit**

Affords qualified students an opportunity for study of good orchestral composition and for learning to play with interpretation, finish, and precision. Outside practice necessary.

Prerequisite to Music 150: Consent of instructor on basis of auditions.

Two two-hour periods per week.

51-151. Band (fall, spring) 1 unit

Training for modern professional playing in both the traditional and modern idioms. This organization provides music for athletic events, assemblies, and other campus activities and offers opportunities in radio broadcasting and recording.

Prerequisite: Consent of instructor on basis of auditions.

Two one-and-one-half-hour periods per week.

58-158. Piano Ensemble 1 unit

Study of duo-piano works of all periods in music; also original piano duets. Interpretation and technique of ensemble playing.

Two one-hour periods per week.

59-159. Chamber Ensemble 1 unit

Study and performance of chamber music of all periods. Class will include duo-piano and small instrumental ensembles.

Prerequisite: Consent of instructor.

Two one-hour periods per week.

60-160. College Chorus (fall, spring) 1 unit

A musical organization open to any member of the student body without try-outs. It affords opportunity to become acquainted with some of the best music of the past and present. The chorus appears in several public performances during the year.

Two one-hour periods per week.

65-165. A Cappella Choir (year)

1-1 unit

A selected group of singers who sing a cappella literature ranging from the sixteenth century to the present. Principles of style and interpretation, voice production, and other attributes of musicianly singing are dwelt upon to a much greater extent than is possible in the College Chorus.

Prerequisite for Music 165: Consent of instructor on the basis of auditions.

Four hours per week.

Madrigal Singers

No credit

Consent of the instructor is required for admission to membership in this choral group.

Applied Music

Private lessons will be given on the basis of one half-hour lesson per week for a fee of \$3 per lesson. (Class lessons in each of these fields are covered by regular tuition, without extra charge.)

80-180. Private Lessons—Piano

1 unit

Mr. Fulkerson.

81-181. Private Lessons—Strings

1 unit

Mrs. Thompson.

82-182. Private Lessons—Brass

1 unit

Mr. Gurnee.

83-183. Private Lessons—Woodwinds

1 unit

Mr. Gurnee.

84-184. Private Lessons—Organ

1 unit

Anyone interested may make arrangements through Mr. Barlow.

86-186. Private Lessons—Voice

1 unit

Mr. Barlow.

89-189. Private Lessons—Modern Instrumental Arranging

2 units

Mr. Weeks.

Designed to bridge the gap between theory and practice. Application of the principles of composition, with reference to new techniques of harmony, counterpoint, form and orchestration; and embracing various aspects of instrumental treatment, such as transposition, modulation, score analysis, manuscript technique and new musical idioms.

SPEECH

Requirements for the A.B. Degree with Major in	Speech	Liberal Arts †		
	(General	Speech- English	Radio- Speech	Speech- Dra- matics
	Second- ary Creden- tial)			
Lower Division				
	Units	Units	Units	Units
Spch. 1—Fundamentals of Speech-----	3	3	3	3
Spch. 2—Oral Interpretation of Literature----	3	3	3	3
Spch. 3—Public Speaking -----	3	3	3	3
Spch. 10—Survey of Radio Broadcasting-----	-	-	3	-
Spch. 20—Technique of Acting-----	2	2	-	2
Spch. 21—Elementary Stagecraft -----	2	2	-	2
Electives in Speech-----	-	2	-	2
Engl. 1A-1B—First-year Reading and Composition -----	6	6	6	6
Engl. 46A-46B—Survey of English Literature----	-	6	6	6
Jn. 20—Newsriting -----	-	-	3	-
B.A. 2A—Typing (or equivalent skill) -----	-	-	0-2	-
B.A. 50—Salesmanship -----	-	-	2	-
I.E. 50—Introduction to Radio-----	-	-	3	-
Nat. Sci. Electives (See page 37.)-----	12‡	12	9	12
Or. II—Orientation II -----	1	-	-	-
P.E.—Activities (Including P.E. 5 or 15) -----	2	2	2	2
Psych. 1—General Psychology-----	3	3	3	3
Soc. Sci. (Including one year-course) (See page 37) -----	12	12	12	12
Fulfillment of Requirement in United States history and construction. (See page 38.)				
Math. A-B—Elementary Algebra and Plane Ge- ometry (if not taken in high school)				
Completion of lower division requirements for a minor. (See lists on page 84.)				

† The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

‡ Recommended: Phys. Sci. 5A-5B; Phys. 15.

Requirements for the A.B. Degree with Major in	Speech (General Second- ary Creden- tial)	Liberal Arts		
	Speech- English	Radio- Speech	Speech- Dra- matics	
		(Without a Teaching Credential)		
Upper Division				
	Units	Units	Units	Units
Spch. 111—Adv. Radio Workshop-----	-	-	1	-
Spch. 112—Radio Writing-----	-	-	3	-
Spch. 113—Radio Production Directing-----	-	-	3	-
Spch. 114—Radio Sales and Commercial Operation-----	-	-	3	-
Spch. 115—Advanced Radio Production-----	-	-	3-8	-
Spch. 126—Play Production-----	3	3	-	3
Spch. 127—Play Production-----	3	3	-	3
Spch. 140—Survey of the Drama-----	3	3	-	3
Spch. 170—Phonetics-----	3	-	-	3
Spch. 180—Speech Correction-----	3	-	-	-
Electives in Upper Division Speech chosen from:				
Spch. 102—Advanced Expression and Interpretation-----	4	-	6-1	7
Spch. 103—Advanced Public Speaking-----				
Spch. 106—Discussion Methods-----				
Spch. 111—Advanced Radio Workshop-----				
Spch. 125—Dramatics Workshop-----				
Spch. 130—Playwriting-----				
Spch. 170—Phonetics-----				
Engl. 112—Phonetics or 115—The English Language-----	-	3	-	-
Engl. 136A or 136B—American Literature-----	-	3 or	-	-
Engl. 162—Shakespeare-----	-	(3)	-	-
Electives in Speech or-----	-	-	-	-
English-----	-	9	5	5
Total required in the major (Upper Division)---	(19)	(24)	(24)	(24)
Educ. 113—Psychological and Social Founda- tions of Education-----	5	-	-	-
Educ. 153—Audio-Visual Education-----	2	-	-	-
Educ. 175—Core Course in Secondary Education	5	-	-	-
Educ. 195Sp—The Teaching of Speech-----	2	-	-	-
Completion of upper division requirements for a minor.				
Electives to total-----	120	120	120	120
Total upper division required-----	40	40	40	40
Total required outside field of Speech-English and Journalism-----	60	60	60	60
Scholarship Requirements:				
In all work taken-----	1.00	1.00	1.00	1.00
In major and minor-----	1.00	1.00	1.00	1.00
In each education course taken-----	1.00	-	-	-
For admission to Graduate Division:				
In major-----	1.5	-	-	-
In all upper division work taken-----	1.5	-	-	-
Graduate Year (General Secondary Credential Only)				
				Units
Electives in Speech (Graduate or Upper Division Courses)-----				6
Educ. 265—Guidance in Education-----				2
Educ. 275—Seminar in Secondary Education-----				2
Educ. 340A-340B—Directed Teaching in the Secondary School-----				6
Major or minor or electives (Upper Division or Graduate courses) to total at least				30
Scholarship Requirement (all work in Graduate Year)-----				1.75

SPECIAL SECONDARY CREDENTIAL IN SPEECH CORRECTION

Holders of General Elementary or General Secondary Credentials who have taught successfully for two years, and who have the necessary personal characteristics for work with handicapped children may qualify for the Special Secondary Credential in Speech Correction by completing the following courses:

Lower Division

	<i>Units</i>
Speech 1—Fundamentals of Speech	3
Speech 2—Oral Interpretation of Literature	3

Upper Division

Speech 170—Phonetics	3
Speech 180—Speech Correction	3
Speech 181—Advanced Speech Correction	3
Educ. 320C—Directed Teaching in the Elementary School (Special Field of Speech Correction)	2

GENERAL SECONDARY CREDENTIAL WITH MAJOR IN LANGUAGE ARTS

Details of this program are given on pages 100-101 of this catalog under the Division of Language and Literature.

REQUIREMENTS FOR

<i>Junior High School Major</i>		<i>Teaching Minor for Candidates for General Secondary Credential</i>
		<i>Speech</i>
Lower		
Division—Speech 1	3 units	Speech 1 3 units
Speech 2	3 units	Speech 2 3 units
Speech 3	3 units	Plus courses approved
Electives	3 units	by the Divisional
Upper		Chairman 14 units
Division—Speech 126	3 units	(At least 6 units must
Speech 127	3 units	be in the upper di-
Speech 180	3 units	vision.)
Speech 191	3 units	
Electives	3 units	
Total Units		
Required	27 units	20 units

Additional requirements for the Junior High School Credential are given in detail on pages 50-51.

		<i>Minors</i>
		<i>Radio</i>
		<i>Speech-Dramatics</i>
Lower Division		Speech 1 3 units
		Speech 2 3 units
		Speech 3 3 units
Upper Division		Speech 113 3 units
		Speech 114 3 units
Total Units Required		12 units
		12 units

DESCRIPTION OF COURSES

Lower Division

- 1. Fundamentals of Speech** (fall, spring) **3 units**
An introductory course in public speaking and reading aloud, involving the study of voice control, delivery techniques, speech composition, types of readings and speeches. Three one-hour periods per week.
- 2. Oral Interpretation of Literature** (spring) **3 units**
A basic course in voice training and in the art of oral interpretation. Oral interpretation of poetry, short stories, and dramatic scenes from the standpoint of both emotional and intellectual reaction. Three one-hour periods per week.
Prerequisite: Speech 1.
- 3. Public Speaking** (fall) **3 units**
A basic course in the fundamentals of speech planning and delivery. The course aims to develop self-confidence and poise through oral expression and to awaken interest in the events and problems of the modern world. Three one-hour periods per week.
Prerequisite: Speech 1.
- 7. Radio Speech** (spring) **3 units**
The theory and practice of radio broadcasting as distinguished from platform speaking. Class practice with proven broadcasting materials of all kinds.
Prerequisite: Speech 1 and 2 or the consent of the instructor.
Three one-hour periods per week.
- 10. Survey of Radio Broadcasting** **3 units**
An introduction to radio and television, including the history of broadcasting; government regulations; station organization and major network organization; method and types of broadcasting and production; commercial methods and policies; educational broadcasting and broadcasters; public service responsibilities; recent trends in broadcasting; and the future of radio and television. Three one-hour periods per week.
- 11. Radio Workshop** (fall, spring) **1-2 units**
The emphasis is upon the production of radio programs presented on the campus training station and programs released over the local radio stations in Eureka. Course work includes training in related skills such as writing, directing, producing, and broadcasting radio programs. One lecture hour per week, and two (or five) workshop hours per week (depending upon the unit credit to be earned).
A maximum of four units degree credit is allowed for this course.
- 20. Technique of Acting** (fall) **2 units**
Embraces the basic principles of dramatic art. It teaches the fundamentals of pantomime, impersonation, and oral expression and acting. It is designed for students with little or no stage experience who wish to improve their speaking voices and to develop poise and self confidence. Two two-hour periods per week.
- * 21. Elementary Stagecraft** **2 units**
The planning, building, painting and lighting of scenery. One one-hour lecture and one three-hour laboratory period per week.
- 25. Dramatic Workshop** (fall, spring) **1-2 units**
A laboratory course in acting and in the technical practices of the stage, including construction of sets, stage lighting, theatrical costume and make-up. Time is spent in the actual work of preparing plays for public performance. A maximum of four units degree credit is allowed for this course. Three two-hour periods per week (for two units of credit).

* Not given 1950-51.

*** 30. Playwriting (fall)****3 units**

The critical analysis of dramatic structure and techniques designed for the student interested in dramatic literature, play directing, or the writing of original plays for the stage and radio.

Prerequisite: English 1A-1B or consent of the instructor.

Two two-hour periods per week.

*** 40. Drama History and Appreciation****3 units**

Designed for students not majoring in speech and drama, but who wish to know more about drama as a part of their general education. Will cover representative plays from the Greeks to those of present-day playwrights—the Continent, England, and America.

Not open to speech and drama majors.

Three one-hour periods per week.

80. Speech Clinic (fall, spring)**1-1 unit**

Individual instruction for students having minor disturbances of voice or speech as well as those having more serious disorders. Consent of the instructor must be obtained for enrollment.

Two one-hour periods per week.

Upper Division

Speech 1, and 2 or 3 or consent of instructor are prerequisite to all upper division courses.

102. Advanced Expression and Interpretation (spring)**3 units**

A course in reading aloud in which particular attention will be paid to the specific interests, needs, and abilities of the individual student, which determine his activities in class. Special attention is given to the needs of prospective teachers with respect to reading aloud in the classroom.

Prerequisite: Speech 2.

Three one-hour periods per week.

103. Advanced Public Speaking (fall)**3 units**

Embraces a more detailed study of speech planning, the techniques of presentation, and the forms of address. Extensive practice in extemporaneous speaking.

Prerequisite: Speech 3.

Three one-hour periods per week.

106. Discussion Methods**2 units**

Techniques of group discussion including the conference, panel, and symposium forms; practical experience in discussion of current problems; the study of parliamentary law and its application to the organization and functioning of groups.

Two one-hour periods per week.

110. Survey of Radio Broadcasting (spring)**3 units**

Designed for radio majors and minors and students working toward a Liberal Arts degree. Upper division students are required to work on research or other suitable projects toward class credit.

Three one-hour periods per week.

111. Advanced Radio Workshop**1-2 units**

A course of the same character as Speech 11 for advanced students.

Prerequisite: Consent of the instructor.

One lecture hour per week, and two (or five) workshop hours per week (depending upon the unit credit to be earned).

A maximum of four units degree credit is allowed for this course.

112. Radio Writing**3 units**

Analytical study is given to radio play scripts, continuity forms, commercial announcements, special events programs, talks, public service programs, etc. Scripts written by members of this class are utilized in the workshop courses, production courses, and directing courses.

Prerequisite: English 1A-1B and consent of the instructor.

Three one-hour periods per week.

* Not given 1950-51.

- 113. Radio Production Directing** **3 units**
 Study of the program director's job in the average radio station, including the planning, organization, and production of all types of radio programs: Special events, broadcasts, commercial programs, interviews, dramatic programs, network programs, and various types of recorded programs.
 Prerequisite: Speech 10 or 110, 11 or 111, and consent of the instructor.
 Three one-hour class periods per week.
- 114. Radio Sales and Commercial Operation (fall)** **3 units**
 Study of the business manager's job in the average radio station; analysis of the costs in running a station, copy analysis and placement, sales methods, analysis of programs in relation to sales possibilities, Federal Trade Commission regulations, national advertising associations, costs of programs, making of contracts, etc.
 Prerequisite: Speech 10 and 113 or consent of instructor.
 Three one-hour periods per week.
- 115. Advanced Radio Production** **3-8 units**
 The many aspects of the radio profession through "on the job" participation in studio work of stations KTEM-KRED, KHUM, and the college campus training station. Offered to superior students who meet related requirements and who have completed Speech 10, 110, 11, 111, 112, 113, and 114.
 From nine to twenty-four hours per week, depending upon the unit credit to be earned.
- *116. Music in Radio Broadcasting (spring)** **3 units**
 The various uses of music in the radio program involving the building and production of musical programs; writing musical continuity; arranging music for dramatic radio; and inspection of the functional importance of music and its practical use in current programs.
 Prerequisite: Speech 10 or 110, 11 or 111, 113.
 Three one-hour periods per week.
- 125. Advanced Dramatic Workshop (fall, spring)** **1-2 units**
 A course of the same character as Speech 25 for advanced students.
 Prerequisite: Speech 1, 2 or 3 or consent of the instructor.
 Three two-hour periods per week (for two units).
 A maximum of four units degree credit is allowed for this course.
- 126. Play Production (spring)** **3 units**
 Designed for teachers and students who intend to engage in the work of directing plays. Attention is given to the choice of material for amateur theatricals, directing techniques, make-up, costuming, publicity, and advertising, ticket sales, house management, etc.
 Two two-hour and one one-hour periods per week.
- 127. Play Production (fall)** **3 units**
 A lecture and laboratory course designed primarily for teachers and students who intend to engage in the work of staging play productions. This advanced course includes stage designing, construction, painting, lighting, sound effects, furniture, and furnishings.
 Three one-hour and one two-hour periods per week.
- *130. Advanced Playwriting (fall)** **3 units**
 A continuation of Speech 30, with opportunity for each student to concentrate his activities in any one of the following fields of playwriting: one-act plays, radio plays, skits, blackouts, three-act plays, for possible production by the college drama department.
 Prerequisite: English 1A-1B or consent of instructor.
 Two two-hour periods per week.

* Not given 1950-51.

*** 140. Survey of the Drama****3 units**

The historical development of the drama, covering representative plays from the Greeks to those of present-day playwrights—the Continent, England, and America. Students not majoring in speech and drama may take this course either as a lower division class (Speech 40) or as an upper division class (Speech 140). Students having upper division standing are advised to register for Speech 140.

Three one-hour periods per week.

*** 141. Modern American Drama (spring)****3 units**

A course in the American theater and its staging, acting, and drama from the Civil War to the present day. Primary emphasis in the course is placed upon the theater and drama from 1918 to the present. The course is conducted through lectures, assigned reading, discussions, and assigned reports.

Three one-hour periods per week.

170. Phonetics (fall)**3 units**

Principles of phonetics; pronunciation, based on contemporary American usage; phonetic analysis applied to speech improvement.

Three one-hour periods per week.

*** 180. Speech Correction (spring)****3 units**

The classification, diagnosis, and treatment of speech defects. Theory supplemented by demonstrations and supervised practical work with children and adults in the speech clinics. Intended particularly for training prospective teachers to recognize and correct speech defects of elementary school children.

Three one-hour class periods and one two-hour laboratory period per week.

181. Advanced Speech Correction (fall)**3 units**

Emphasis is placed upon the more serious types of speech disorders. Special attention is given to making case studies and speech surveys as well as to methods of testing and diagnosis. Supervised clinical practice.

Three one-hour class periods and one two-hour laboratory period per week.

191. Speech and Drama in the Elementary and Junior High School (spring)**3 units**

Designed for the teacher who is interested in using dramatic activities and discussion techniques. A workshop for the consideration of such problems as: Conducting round tables, panels, symposia, and forums; coaching debaters; choosing school plays; using speech and drama in the classroom.

Three one-hour periods per week.

199. Directed Study in Speech Problems (fall, spring)**1-3 units**

Student assists in speech training. Consent of instructor required for enrollment.

Hours to be arranged with the instructor.

Graduate Division**226. Advanced Stage Direction (fall, spring)****3 units**

The purpose of this course is to train teachers in the techniques of dramatic direction. The student will study problems in theory involving an examination of the various historic and modern styles of acting. Each student will produce a full length play and will prepare a prompt-book based on the production.

Prerequisite: Graduate standing and consent of instructor.

241. Modern American Drama (spring)**3 units**

See 141.

* Not given 1950-51.

The Division of Health and Physical Education

OBJECTIVES

The Division of Health and Physical Education has five functions:

1. To develop skill in a variety of physical activities which shall aid in maintaining health and providing opportunity for self-expression in individual and group activities.
2. To provide curricula leading to:
 - a. General Secondary Credential with major in Physical Education.
 - b. The Special Secondary Credential in Physical Education.
3. To provide opportunity for those interested to acquire techniques and principles which will enable them to serve as leaders in community groups, to prepare the prospective teacher who may find himself assigned to supplemental work in this field, and to develop an appreciation on the part of future teachers of the importance of health and hygiene in the total school program. To realize these goals, a junior high school major and a minor are offered in physical education, and health and hygiene.
4. To prepare teachers to handle intelligently the physical education program in the elementary schools.
5. To provide curricula leading to the B.S. degree for graduate nurses and pre-nursing students. Also, to provide a one-year course for pre-nursing candidates.
6. To provide a two-year terminal course in Recreational Leadership for directors of camps and recreation programs.

PHYSICAL EDUCATION

Requirement in Physical Education Activities

Students who are enrolled in the college for 12 or more units are required to take an activity course twice weekly during the first four semesters of attendance. Persons 27 years of age or older and veterans may be exempt from this requirement by written consent of the Division.

Women students will take one activity from each of the following groups:

(a) Freshman Activities, including a team sport; (b) dance; (c) individual sports. Freshmen women are required to take P. E. 15.

Freshmen men will take P. E. 5 and three other activity courses.

<i>Requirements for the A.B. Degree With Major in Health and Physical Education</i>		<i>General Secondary Credential</i>	<i>Special Secondary Credential</i>
Lower Division			
	<i>Units</i>	<i>Units</i>	
P.E. 1, 2—Physical Education Activities	2	2	
P.E. 70—Introduction to Health and Physical Education	2	2	
P.E.—Activities (including one unit each in P.E. 50, 51, 52, and 53—men only)	6	6	
H.H. 1—Personal Hygiene	2	2	
H.H. 55—First Aid	2	2	
Engl. 1A-1B—First-year Reading and Composition	6	6	
Zool. 1A—General Zoology	4	4	
Anat. 66—Human Anatomy	3	3	
Chem. 2A—General Elementary Chemistry	3	3	
Physiol. 1—Elementary Physiology	3	3	
Or. II—Orientation II	1	1	
Psych. 1—General Psychology	3	3	
Soc. Sci. (Including one-year course.) (See page 37)	12	12	
Spch. 1—Fundamentals of Speech	3	3	
Restricted Electives (Chosen from art, music, foreign language, philosophy, English 46A-46B, or 74A-74B)	6	6	
Fulfillment of requirement in United States history and constitu- tion. (See page 38.)			
Math. A-B—Elementary Algebra and Plane Geometry if not taken in high school.			
Completion of lower division requirements for a minor. (See list on page 39.)			
Electives (lower division) to total	60	60	
Upper Division			
P.E. 151—Applied Kinesiology	3	3	
P.E. 152—Methods in Corrective Physical Education	2	2	
P.E. 153—Physiology of Exercise	3	3	
P.E. 154—Tests and Measurements in Physical Education	2	2	
P.E. 175—History and Principles of Physical Education	3	3	
P.E. 191—Singing Games and Folk Dances	1	1	
P.E. 192A-B—Theory of Athletics (Men) or 193A-B—Methods of Teaching Sports (Women)	4	4	
H.H. 160—Public Health	3	3	
H.H. 161—School Health Program	2	2	
Educ. 113—Psychological and Social Foundations of Education	5	5	
Educ. 153—Audio-Visual Education	2	2	
Educ. 175—Core Course in Secondary Education	5	5	
Educ. 190PE—Elementary School Physical Education	-	2	
Educ. 195PE—The Teaching of Physical Education	2	2	
Educ. 195HH—The Teaching of Health and Hygiene	2	2	
Educ. 320C—Directed Teaching—Elementary School Physical Education	-	2	
Educ. 340A—Directed Teaching—Secondary School Physical Education	-	3	
Completion of upper division requirements for a minor.			
Electives to total	120	120	
Total upper division required	40	40	
Total required outside field of Health and Physical Education	60	80	
Scholarship Requirements:			
In all work taken	1.00	1.00	
In major and minor	1.00	1.00	
In each education course taken	1.00	1.00	
For admission to Graduate Division:			
In major	1.5		
In all upper division work taken	1.5		

Graduate Year (General Secondary Credential Only)

	<i>Units</i>
Elective in Physical Education (Graduate Course)	5-6
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Major or minor or electives (Upper Division or Graduate courses) to total at least	30
Scholarship Requirement (all work in Graduate Year)	1.75

RECREATIONAL LEADERSHIP

A two-year terminal course is suggested for students who would like to obtain employment in municipal recreation centers, state or national parks, summer camps, or other recreational areas, or for the training of volunteer workers in community youth projects. Certain basic courses are outlined, and the rest of the program may be made up from electives selected on the basis of the student's interests and vocational objectives.

RECOMMENDED SEQUENCE

Freshman Year

	<i>Sem. 1</i>	<i>Sem. 2</i>
Botany 4 (Classification of Flowering Plants)	—	3
English 1A-1B (First-year Reading and Composition)	3	3
Health and Hygiene 1 (Personal Hygiene)	2	—
Health and Hygiene 55 (First Aid)	—	2
Physical Education 1-2 or 3-4	1	1
Physical Education 77 (Recreation and Campercraft)	—	2
Sociology 1A-1B (Introduction)	3	3
Electives	6	1

15 15

Sophomore Year

History 70 (History of the United States)	2	—
Physical Education 31 (Introductory Social Dancing)	$\frac{1}{2}$	—
Physical Education 33 (Folk Dancing)	—	$\frac{1}{2}$
Physical Education 88 (Club Leadership)	2	—
Physical Education 176 (Community Recreation)	—	2
Political Science 51 (American Constitutional Government)	—	2
Psychology 1 (General)	—	3
Speech 1 (Fundamentals)	3	—
Electives	$7\frac{1}{2}$	$7\frac{1}{2}$

15 15

Recommended Electives: Art 40 (Crafts) ; 50 (Photography) ; Speech 18 (Radio Workshop) ; 25 (Dramatic Workshop) ; Geology 1A ; Zoology 65 (Ornithology) ; Wildlife Management 2 (Conservation) ; 5 (Techniques) ; English 178 (Children's Literature) ; P. E. 194A-B (Officiating) ; Music Activities ; Sociology 103 (Crime and Delinquency) ; or 106 (The Community). The student must comply with rules governing admission to upper division classes.

If a student is interested in a degree program emphasizing Recreational Leadership, a group major may be arranged. See page 149.

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	Lower Division
H.H. 1 ----- 2 units	H.H. 1 ----- 2 units	H.H. 1 ----- 2 units
H.H. 55 ----- 2 units	H.H. 55 ----- 2 units	H.H. 55 ----- 2 units
P.E. 1, 2 ----- 2 units		
P.E. 70 ----- 2 units	Men	
P.E. 77 ----- 2 units	P.E. 1, 2 ----- 2 units	A minimum of 17 elective units in courses approved by the Chairman of the Division, at least 6 of which must be in the upper division.
Elective ----- 2 units		
	Women	
	P.E. 15 ----- $\frac{1}{2}$ unit	
	P.E. 16A ----- $\frac{1}{2}$ unit	
	P.E. 17A ----- $\frac{1}{2}$ unit	
	P.E. 18A ----- $\frac{1}{2}$ unit	
Upper Division	Upper Division	
Educ. 195HH-- 2 units	Educ. 195HH-- 2 units	
H.H. 161 ----- 2 units	P.E. 190 ----- 2 units	
P.E. 175 ----- 3 units	P.E. 191 ----- 1 unit	
P.E. 176 ----- 2 units		
P.E. 190 ----- 2 units		
P.E. 191 ----- 1 unit		
Men	Men	
P.E. 192 ----- 4 units	P.E. 192 ----- 4 units	
Women	Women	
P.E. 193 ----- 4 units	P.E. 193 ----- 4 units	
Totals units required:		
28 units	15 units	21 units

Additional requirements for the Junior High School Credential are given in detail on pages 50-51.

DESCRIPTION OF COURSES

COURSES FOR MEN

Lower Division

- 1, 2. **Physical Education Activities** 1 unit each course
 Required of all physical education majors and to be taken in the lower division. The object of the courses is to develop skill in and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Along with learning these skills, the student will learn sound techniques in teaching.
5. **Freshman Physical Activities** (fall, spring) 1 unit
 Fundamentals of team and individual sports, together with some achievement tests.
 Required of all freshmen and limited to freshmen.
 Two one-hour periods per week.
6. **Team Sports** (fall) 1 unit
 Touch football, volleyball, and handball.
 Two one-hour periods per week.
7. **Team Sports** (spring) 1 unit
 Basketball, track, and softball.
 Two one-hour periods per week.

- | | |
|---|--------------------------------------|
| 8. Individual Sports (fall, spring) | $\frac{1}{2}$ unit |
| Boxing, wrestling. | |
| Two one-hour periods per week. | |
| 9. Individual Sports (fall, spring) | $\frac{1}{2}$ unit |
| Tumbling and Trampoline. | |
| Two one-hour periods per week. | |
| 10. Body Building (spring) | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 50. Intercollegiate Football (fall) | 1 unit |
| Varsity and Junior Varsity teams. | |
| Daily afternoon practice. | |
| 51. Intercollegiate Basketball (fall and spring) | $\frac{1}{2}$ unit |
| Varsity and Junior Varsity teams. | |
| Daily afternoon practice. | |
| 52. Intercollegiate Baseball (spring) | 1 unit |
| Varsity and Junior Varsity teams. | |
| Daily afternoon practice. | |
| 53. Intercollegiate Track (spring) | 1 unit |
| Varsity team. | |
| Daily afternoon practice. | |
| 54. Intercollegiate Boxing (fall and spring) | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |

Upper Division

- | | |
|--|----------------|
| 192A. Theory of Athletics (fall) | 2 units |
| Coaching techniques in football and basketball. | |
| Prerequisite: Upper division status. | |
| Two one-hour periods per week. | |
| 192B. Theory of Athletics (spring) | 2 units |
| Coaching techniques in baseball, track and field. | |
| Prerequisite: Upper division status only. | |
| Two one-hour periods per week. | |
| 194A. Football Officiating (fall) | 1 unit |
| The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials. | |
| One two-hour period per week. | |
| 194B. Basketball Officiating (fall) | 1 unit |
| The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials. | |
| One two-hour period per week. | |

COURSES FOR WOMEN

Lower Division

- | | |
|--|---------------------------|
| 1, 2. Physical Education Activities | 1 unit each course |
|--|---------------------------|

Required of all physical education majors and to be taken in the lower division. The object of the courses is to develop skill in and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Along with learning these skills, the student will learn sound techniques in teaching.

- 15. Freshman Physical Activities (fall)** 1/2 unit
 A course to give the entering student an opportunity to participate in activities which demand and develop fundamental skills, such as running, throwing, catching, and relaxing, in at least one team game, and in activities which help correct the more prevalent deviations from normal body mechanics.
 Required of all freshmen women and limited to freshmen.
 Two one-hour periods per week.
- 16. Team Sports (fall)** 1/2 unit
 Field hockey, soccer, speedball.
 Two one-hour periods per week.
- 17. Team Sports (spring)** 1/2 unit
 Basketball, softball, volleyball.
 Two one-hour periods per week.
- 18A. Beginning Dance (fall)** 1/2 unit
 Introduction to modern dance technique.
 Two one-hour periods per week.
- 18B. Intermediate Dance** 1/2 unit
 Two one-hour periods per week.
- 18C. Advanced Dance** 1/2 unit
 Two one-hour periods per week.

Upper Division

- 193A. Methods of Teaching Team Sports** 2 units
 Field hockey, soccer, softball, volleyball, speedball, basketball.
 Prerequisite: Previous participation.
- 193B. Methods of Teaching Individual Sports** 2 units
 Tennis, archery, badminton, recreational sports.
 Prerequisite: Previous participation.

COURSES FOR MEN AND WOMEN

Lower Division

- 25. Individual Exercise Program (fall, spring)** 1/2 unit
 A program of special exercise and activity suited to the individual student.
 Two one-hour periods per week.
- 27A. Elementary Tennis (fall, spring)** 1/2 unit
 Two one-hour periods per week.
- 27B. Intermediate Tennis (fall, spring)** 1/2 unit
 Two one-hour periods per week.
- 27C. Advanced Tennis (fall, spring)** 1/2 unit
 Two one-hour periods per week.
- 28A. Elementary Archery (fall, spring)** 1/2 unit
 Two one-hour periods per week.
- 28B. Advanced Archery (fall, spring)** 1/2 unit
 Two one-hour periods per week.
- 29A. Badminton (fall, spring)** 1/2 unit
 Badminton, deck tennis, paddle tennis, table tennis.
 Two one-hour periods per week.
- 29B. Advanced Badminton (fall, spring)** 1/2 unit
 Two one-hour periods per week.

- 30A. Elementary Golf** (fall, spring) ½ unit
Two one-hour periods per week.
- 30B. Advanced Golf** (fall, spring) ½ unit
One two-hour period per week.
- 31. Introductory Social Dancing** (fall) ½ unit
An introductory course including both ballroom and folk dancing.
Two one-hour periods per week.
- 32. Ballroom Dancing** (spring) ½ unit
Basic dance techniques; fox trot, waltz, tango, and current routines. Dance etiquette.
- 33. Folk Dancing** (fall, spring) ½ unit
Two one-hour periods per week.
- 36. Bowling** ½ unit
Two one-hour periods per week.
- 55. Intercollegiate Tennis** (spring) 1 unit
Daily afternoon practice.
- 56. Intercollegiate Golf** (spring) 1 unit
Daily afternoon practice.

70. Introduction to Health and Physical Education (spring) 2 units
The origins, aims and objectives of the modern school program in health and physical education are studied to enable the student to formulate a fundamental background and a basic philosophy for his profession. There is an emphasis on integration with the total school program.

77. Recreation and Campcraft (spring) 2 units
Thorough theoretical background and some practical laboratory experience in playground work.

88. Club Leadership 2 units
History of boys' and girls' club work; the basic principles and conceptions of these movements; the organization of such a program in the community; requirements for adult leadership; summer camps. This course will include practice in laboratory field work.

Upper Division

151. Applied Kinesiology (fall) 3 units
Study of the anatomy of muscles, bones, joints and of the nervous system as a basis for understanding bodily movement in exercise and sports.
Three one-hour periods per week.

152. Methods in Corrective Physical Education (spring) 2 units
The principles underlying good body mechanics; the causes, correction, and prevention of postural defects; methods of relaxation; the place of Corrective Physical Education in the school program; equipment facilities and procedure; fundamentals and practice of massage. Much of the work is practical.
Prerequisite: Physical Education 151.
Two one-hour periods per week.

153. Physiology of Exercise (fall) 3 units
The physiological effects of muscular exercise, athletic training and physical conditioning are studied. The significance of these effects are evaluated in terms of performance in physical education activities and interscholastic competition.
Prerequisite: Physiology 1 and Anatomy 66.
Three one-hour periods per week.

154. Tests and Measurements in Physical Education (fall) 2 units

The use of tests and measurements in physical education; evaluation of objectives, programs and student achievement through measurement and evaluative techniques.

175. History and Principles of Physical Education (fall) 3 units

The evaluating of the history of physical education, the weighing of current problems in the field, the setting up of a code of ethics for professional workers, and the formulating of aims and objectives.

Three one-hour periods per week.

176. Principles of Community Recreation (spring) 2 units

A consideration of the principles involved in developing an ideal program of recreation. Some practical experience in organizing college recreational activities is required.

Two one-hour periods per week.

190. Elementary School Physical Education (fall, spring) 2 units

(See Education 190PE.)

The organization of the physical education program in grades one through eight.

Two class and one observation hours per week.

191. Methods in Singing Games and Folk Dances (fall, spring) 1 unit

Participation in and conduct of rhythms suitable for children of the elementary school and junior high school.

Two one-hour periods per week.

Graduate Division**289. Techniques of Research in Physical Education 2-3 units**

Research and investigation in the problems of health, physical education and recreation. Hours to be arranged in terms of the investigation.

*** 292. Advanced Coaching Techniques 2 units**

The theory and practice of advanced coaching techniques as related to inter-scholastic and collegiate competition.

299. Problems in Health, Physical Education and Recreation 1-3 units

A study of selected problems in health, physical education and recreation. A survey of current problems facing the physical educator from a review of literature, consideration of trends and analysis and evaluation of school situations.

* Not given 1950-51.

HEALTH AND HYGIENE

Graduate nurses from accredited nursing schools with three years of training who hold California certification as registered nurses may be granted the Bachelor of Science degree upon the completion of an approved program of study, as outlined below.

Students who complete an approved curriculum in the State College followed by graduation from an accredited nursing school based upon three years of training, may receive the Bachelor of Science Degree from the College. The essential requirements for a degree established by the State Department of Education must be fulfilled. Some adjustments in the program may be made to suit the curricular requirements of the hospital to which the student expects to transfer.

The major requirements for these two programs are presumed to be satisfied by the work in nursing, a maximum of 60 units being allowed for the three-year nursing course.

Require- ments for	Degree with Major in Nursing	Graduate Nurses	Pre-Nursing Students
		Units	Units
Engl. 1A-1B—First-year Reading and Composition	-----	6	6
H. E. 20—General Nutrition (including laboratory work)	---	-	3
Nat. Sci.—Electives (See page 37.)	-----	12	-
Anat. 66—Human Anatomy	-----	-	3
Bact. 1—General Bacteriology	-----	-	5
Chem. 2A—General College Chemistry	-----	-	3
Physiol. 101—Human Physiology	-----	-	3
Science Elective—(Recommended Biology 103, 114, or Zoology 160)	-----	-	3
P. E.—Activities (Including P. E. 15)	-----	2	2
Psych. 1—General Psychology	-----	3	3
Soc. Sci.—(Including at least one year course) (See page 37.)	-----	12	12
Electives (Restricted)—(Chosen from art, music, foreign lan- guage, philosophy, speech, English 46A-46B, or 74A-74B)	-----	6	6
Math. A-B—Elementary Algebra and Plane Geometry, if not taken in high school.	-----	-	-
Fulfillment or requirement in United States history and consti- tution. (See page 38.)	-----	-	-
Completion of requirements for a minor. (See list on page 39.)	-----	6-12	*
Electives to bring total to	-----	68	68
Scholarship requirement on all work taken	-----	1.00	1.00

UNIVERSITY OF CALIFORNIA SCHOOL OF NURSING

Students who expect to enter hospitals maintained by the University of California or Stanford University must conform to the entrance requirements for those institutions, and plan their college programs to meet the undergraduate patterns prescribed. In general, the courses outlined below fulfill the requirements for transfer to the University of California School of Nursing.

Subject A

Elementary Algebra and Plane Geometry (if not taken in high school)	
Year course ¹	6 units
English 1A-1B or Speech 1, and 2 or 3	6 units
Foreign Language ¹	16 units
Natural Science (Chemistry 1A, 8, Bacteriology 1, Anatomy 66, Physiology 1)	21 units
Philosophy 6A-6B	6 units
Physical Education	2 units
Psychology 1	3 units
Political Science 51 and History 70	4 units

* The course prescribed for pre-nursing students provides for a minor in natural sciences. No courses in addition to those listed above are necessary.

¹ See A.A. Degree requirements of University of California.

One-Year Curriculum

The one-year pre-nursing program has been outlined to meet the needs of students who wish to take their professional training in one of the nursing schools which require one year of college work as prerequisite to admission.

Recommended Sequence

	<i>Sem. 1</i>	<i>Sem. 2</i>
Anatomy 66 -----	-	3
Bacteriology 1 -----	5	-
Chemistry 2A -----	3	-
English 1A -----	-	3
Physiology 1 -----	-	3
Psychology 1 -----	-	3
Electives -----	7	2
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
	15$\frac{1}{2}$	14$\frac{1}{2}$

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division		
H.H. 1 ----- 2 units	H.H. 1 ----- 2 units	H.H. 1 ----- 2 units
H.H. 55 ----- 2 units	H.H. 55 ----- 2 units	H.H. 55 ----- 2 units
Anat. 66 ----- 3 units	H.Ec. 20 ----- 2 units	A minimum of 17 units in courses approved by the Divisional Chairman.
H.Ec. 20 ----- 2 units		
Physiol. 1 ----- 3 units		
Upper Division		
P.E. 151 ----- 3 units	H.H. 160 ----- 3 units	At least 6 units must be in the upper division.
P.E. 152 ----- 2 units	H.H. 161 ----- 2 units	
H.H. 160 ----- 3 units	Ed. 195H.H. -- 2 units	
H.H. 161 ----- 2 units		
Ed. 195H.H. -- 2 units		
Total units required ----- 24 units	Total units required ----- 13 units	Total units required ----- 20 units

Additional requirements for the Junior High School Credential are given in detail on pages 50-51.

A liberal arts group major which includes Health and Hygiene may be arranged in consultation with the student's adviser and the Registrar's Office. See page 149.

DESCRIPTION OF COURSES**Lower Division****1. Personal Hygiene (fall, spring) 2 units**

The basic principles of healthful living. Informational personal hygiene with consideration of the physical, mental and social well-being of the individual. Deals with the principles of healthful living and assists students to make a conscious adjustment to their environment.

Two one-hour periods per week.

50. Home Nursing (fall, spring) 2 units

Students completing this course and passing the examination will be granted the Red Cross Home Nursing Certificate.

Two one-hour periods per week.

55. First Aid (fall, spring)

2 units

This course conforms to the standards of the American Red Cross. Lectures, practical demonstrations, and practice periods. Those passing the written tests and practical demonstrations will receive the Standard and Advanced Red Cross First Aid Certificates.

Two one-hour periods per week.

Upper Division

156. Techniques in Athletic Training

2 units

Care and prevention of athletic injuries, taping, bandaging, massage, manipulation, and heat therapy.

Two one-hour periods per week.

160. Public Health

3 units

A survey of the field of public health, including disease prevention and control; the social, medical, and economic aspects of sickness and disability, with special emphasis on administrative programs of federal, state, and local health agencies.

Three one-hour periods per week.

161. School Health Program (fall)

2 units

Designed for teachers of health in the public schools. Basic personal, community, and school health problems; content and materials essential in health instruction. Includes techniques of measuring and evaluating health status and health practices.

Two one-hour periods per week.

Related Courses in Other Departments

Anatomy 66 (Human Anatomy)	3 units
Bacteriology 1 (General Bacteriology)	5 units
Biology 103 (Micro-Technique)	2 or 3 units
Home Economics 20 (Nutrition and Foods)	2 units
Home Economics 120 (Dietetics)	3 units
Home Economics 150 (Child Care)	2 units
Physical Education 151 (Applied Kinesiology)	3 units
Physical Education 152 (Methods in Corrective Physical Education)	2 units
Physical Education 153 (Physiology of Exercise)	3 units
Physiology 1 (Elementary Physiology)	5 units

The Division of Language and Literature

English Language and Literature
Journalism

Foreign Languages and
Literature

OBJECTIVES

The objectives of the Division of Language and Literature are:

1. To offer courses that will enrich cultural and social backgrounds, provide improved use of communication skills, and aid in developing a general background in English for prospective teachers.
2. To provide curricula leading to :
 - a. General Secondary Credential with majors in English and language arts.
 - b. The A. B. Degree with a liberal arts major in English as a basis for graduate study for advanced degrees.
 - c. Professional work in journalism.
3. To enable the student to read and use French or Spanish languages for recreative, cultural, or vocational purposes.
4. To give the student a knowledge of the foreign country and its people.
5. To provide courses for a Junior High School major in English, minors in English, journalism, French, and Spanish, and a two-year terminal curriculum in journalism.

ENGLISH

<i>Requirements for the A. B. Degree with Major in</i>	<i>Language Arts</i>		<i>English</i>
	<i>with</i>		<i>(without a</i>
	<i>General Secondary</i>	<i>Credential</i>	<i>teaching</i> <i>credential)</i>
Lower Division	Units	Units	Units
Engl. 1A-1B—First-year Reading and Composition	6	6	6
Engl. 46A-46B—Survey of English Literature	6	6	6
Speech 1—Fundamentals of Speech	3	3	—
Speech 2—Oral Interpretation of Literature <i>or</i>			
Speech 3—Public Speaking	—	3	—
Speech 11—Radio Workshop <i>or</i>			
Speech 111—Advanced Radio Workshop	—	1-2	—
Journalism 20—Newsriting	3	3	—
Foreign Language	—	—	10*
Nat. Sci.—Electives (See page 37)	12	12	12*
Or. II—Orientation II	1	1	—
P.E. Activities (including P.E. 5 or 15)	2	2	2
Psych. 1—General Psychology	3	3	3
Soc. Sci. (including one-year course)	12	12	12
Restricted Electives (chosen from art, music, philosophy ; and for General Secondary, foreign language)	6	6	6
Fulfillment of requirement in United States history and constitution. (See page 38.)			
Math. A-B—Elementary Algebra and Plane Geometry, if not taken in high school.			
Completion of lower division requirements for a minor. (See lists on page 39.)			
Electives (lower division) to total	60	60	60

* The ten units in foreign language must be in not more than two languages. Each year of high school foreign language will be counted in satisfaction of three units of this requirement. Part of requirement may be satisfied by upper division courses.

If a student expects to take graduate work at the University of California, he should consult their requirements in Foreign Languages and Natural Sciences.

	English	Language Arts	English Liberal Arts	
	with General Secondary Credential		(without a teaching credential)	
Requirements for the A. B. Degree with Major in				
	Upper Division	Units	Units	Units
Engl. 101—Advanced Composition	-----	3	3	—
Engl. 115—The English Language	-----	3	—	—
Engl. 136A-136B—American Literature	-----	6	—	—
Engl. 160—Chaucer	-----	—	—	3
Engl. 162—Shakespeare	-----	—	—	3
Electives in Upper Division English	-----	—	—	18
Electives—Chosen from:				
Engl. 142A-B—The Novel	-----	6	—	—
Engl. 153—The Age of Elizabeth	-----			
Engl. 154—The Age of Swift and Pope	-----			
Engl. 155—The Romantic Period	-----			
Engl. 157—The Victorian Period	-----			
Engl. 160—Chaucer	-----			
Engl. 162—Shakespeare	-----			
Electives—(English, speech, drama, radio or journalism)	—	6	—	—
Speech 102—Advanced Expression and Interpretation or				
Speech 103—Advanced Public Speaking	—	3	—	—
Speech 180—Speech Correction	—	3	—	—
Speech 126 or 127—Play Production	3	3	—	—
Educ. 113—Psychological and Social Foundations of				
Education	5	5	—	—
Educ. 153—Audio-Visual Education	2	2	—	—
Educ. 175—Core Course in Secondary Education	5	5	—	—
Educ. 195E—The Teaching of English	2	2	—	—
or Educ. 195Sp—The Teaching of Speech	—	(2)	—	—
Completion of upper division requirements for a minor.				
Electives to total	120	120	120	120
Total Upper Division required	40	40	40	40
Total required outside English-Speech field	60	60	60	60
Scholarship requirements:				
In all work taken	1.00	1.00	1.00	1.00
In major and minor	1.00	1.00	1.00	1.00
In each education course taken	1.00	1.00		
For admission to Graduate Division:				
In major	1.5	1.5		
In all upper division work taken	1.5	1.5		
Graduate Year				
Upper Division or Graduate Course in Major Field	3	3		
Educ. 265—Guidance in Education	2	2		
Educ. 275—Seminar in Secondary Education	2	2		
Educ. 340A-340B—Directed Teaching in the Secondary				
School	6	6		
Major or minor or electives (Upper Division or Graduate				
Course) to total at least	30	30		
Scholarship Requirement (all work in Graduate Year)	1.75	1.75		

REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN SPEECH AND ENGLISH

(This curriculum is outlined in detail on page 82)

TWO-YEAR TERMINAL CURRICULUM IN JOURNALISM

RECOMMENDED SEQUENCE

Freshman Year

	<i>Sem. 1</i>	<i>Sem. 2</i>
English 1A-1B (First-year Reading and Composition) -----	3	3
B.A. 2A (Typing I) -----	2	—
HH 1 (Personal Hygiene) -----	—	2
Science elective -----	3	3
Pol. Sci. 51—(American Constitutional Government) -----	—	2
History 70 (United States History) -----	2	—
Art 50 (Photography) -----	—	2
Social Science elective -----	6	3
Phys. Educ. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	15 $\frac{1}{2}$

Sophomore Year

Journalism 20 (Newsriting) -----	3	—
Journalism 21 (Reporting) -----	—	3
Journalism 29 (Press Photography) -----	—	1
Economics 1A-1B (Principles) -----	3	3
B.A. 14A-14B (Accounting) -----	3	3
English 46A-46B (Survey of English Literature) -----	3	3
Science elective -----	3	3
Phys. Educ. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	16 $\frac{1}{2}$

NOTE: Students with special interests in journalism which are not included in the suggested two-year curriculum are invited to consult with the journalism adviser. Satisfactory degree programs may be arranged with a group major, featuring journalism. (See page 149.)

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor in Journalism</i>
Lower Division		
Eng. 1A-1B --- 6 units	Eng. 1A-1B ----- 6 units	Journalism 20 --- 3 units
Eng. 46A-46B --- 6 units	Recommended:	Journalism 21 --- 3 units
	Eng. 46A-46B.	
Upper Division		
12 units U. D. English	6 units U. D. English.	Journalism
Recommended:	Recommended:	(U. D.) ----- 6 units
Eng. 115 --- 3 units	Eng. 115 ----- 3 units	(May not include more
Eng. 136A or	Eng. 136A or	than 3 units in either
136B --- 3 units	136B ----- 3 units	Journalism 27 or 127.)
Eng. 162 --- 3 units		
One of the		
later period		
courses -- 3 units		
Total units		
required --- 24 units	12 units	12 units

Additional requirements for the Junior High School Credential are given in detail on pages 50-51.

Teaching Minor for Candidates for General Secondary Credentials
English

English 1A-1B	Units 6
Plus courses approved by the Divisional Chairman in English or journalism..... (At least six units must be in the upper division)	15
Total units required	21

DESCRIPTION OF COURSES

Lower Division

Subject A. English Composition (fall, spring) 3 units

A study of the fundamentals of English grammar, usage, punctuation, and mechanics, with some practice in writing. Required of those who fail the test in "Subject A." Not applicable toward degree requirement in English.

Three one-hour periods per week.

1A. First-year Reading and Composition (fall, spring) 3 units

Emphasis on expository writing, with supplementary reading.

Prerequisite: The passing of the Subject A test, or a passing grade in the Subject A course.

Three one-hour periods per week.

1B. First-year Reading and Composition 3 units

An introduction to the study of literature with further training in writing.

Prerequisite: English 1A.

*** 5. Creative Writing (See Eng. 105) 3 units**

*** 8. Playwriting (fall) 3 units**

See Speech 30.

46A. Survey of English Literature (fall) 3 units

The beginning of English literature and the main aspect of its development down to the Restoration (1660).

Prerequisite: English 1B.

Three one-hour periods per week.

46B. Survey of English Literature (spring) 3 units

The leading movements in the development of English literature from the Restoration (1660).

Three one-hour periods per week.

***74A. Masterpieces of World Literature 3 units**

Begins with Homer; goes through the Renaissance.

Three one-hour periods per week.

***74B. Masterpieces of World Literature 3 units**

From the Renaissance.

74A is not prerequisite to 74B.

Three one-hour periods per week.

Upper Division

English 1A-1B is prerequisite to all upper division courses in English.

101. Advanced Composition 3 units

Grammar, usage, and composition for prospective teachers of English.

Three one-hour periods per week.

* Not given 1950-51.

- * 105. Creative Writing** (fall, spring) **3 units**
 Course emphasizes developmental writing and aims toward effective, purposeful expression in various literary forms.
 Prerequisite: Consent of instructor.
 Three one-hour periods per week.
- * 108. Advanced Playwriting** (See Speech 130) **3 units**
 Suggested as an elective; not a part of an English major or minor.
- 112. Phonetics** (fall) **3 units**
 See Speech 170.
- 115. The English Language** **3 units**
 A study of tendencies that have changed and are changing the language; designed to give some basis for deciding questions of grammar, usage, and pronunciation.
 Three one-hour periods per week.
- 136A. American Literature** **3 units**
 A study of American literature from Colonial times to the middle of the nineteenth century.
 Three one-hour periods per week.
- 136B. American Literature** **3 units**
 American literature from the middle of the nineteenth century to the present. A study and appraisal of authors and their works contributing to the American scene.
- *142A. The Novel** **3 units**
 The English novel from Defoe through Scott. Students will read and study the novel, its origin, its development as a literary form.
 Three one-hour periods per week.
- *142B. The Novel** (fall) **3 units**
 The English novel from Dickens to contemporary writers. This is a continuation of course 142A, though 142A is not a prerequisite to 142B.
 Three one-hour periods per week.
- *153. The Age of Elizabeth** **3 units**
 Prose and poetry, exclusive of the drama.
 Three one-hour periods per week.
- 154. The Age of Swift and Pope** (fall) **3 units**
 A study of English writers of the Augustan age in relation to the social and political history of the period.
 Three one-hour periods per week.
- 155. The Romantic Period** (spring) **3 units**
 English literature from 1784 to 1837. The contribution of the poets and prose writers of the romantic revolution to contemporary and modern thought.
 Three one-hour periods per week.
- * 157. The Victorian Period** (fall) **3 units**
 English literature from 1837 to 1900. The writings of Carlyle, Arnold, Tennyson, Browning and later Victorians as interpretation of life in the nineteenth century and the present era.
 Three one-hour periods per week.
- * 160. Chaucer** (fall) **3 units**
- * 162. Shakespeare** (spring) **3 units**
- * 171. Survey of the Drama** (See Speech 140) **3 units**

* Not given 1950-51.

178. Children's Literature (spring) 3 units

A survey course intended to give an understanding and appreciation of the best literature for children of all ages. Required for candidates for the Kindergarten-Primary, the General Elementary and the General Junior High School Credentials. Not applicable toward an English major or minor.

Three one-hour periods per week.

*** 184. Twentieth Century Literature (spring) 3 units**

A study of current literary trends, and of leading modern writers in England and America, in selected novels, short stories, and critical essays.

Three one-hour periods per week.

Graduate Division

*** 219. Old English 3 units**

Elements of Old English Grammar with reading exercises.

*** 288. Principles and Practice of Literary Criticism 3 units**

The principles and practice of literary criticism from Plato and Aristotle to the present.

JOURNALISM

Note: Ability to type is necessary in all journalism courses.

English 1A-1B is prerequisite to all courses in journalism, except Journalism 27.

Lower Division

20. Newswriting 3 units

A study of what constitutes constructive news, of the sources of news, and of the type of writing used in news stories.

Three one-hour periods per week.

***21. Reporting 3 units**

The writing of news stories for the college paper and for the college news bureau.

Prerequisite: Journalism 20, or consent of instructor.

Three one-hour periods per week.

27. Journalism Laboratory 1-3 units

A practical laboratory course under faculty supervision for the staffs of the student publications. Maximum degree credit to be allowed, three units.

Prerequisite: Consent of the instructor.

Three one-hour periods per week.

Upper Division

122. Copyreading 3 units

The methods of editing newspaper copy and the writing of headlines.

Prerequisite: Journalism 20.

Three one-hour periods per week.

***124. Feature Writing 3 units**

A study of the various types of feature articles and the writing of features by the student.

Prerequisite: Journalism 20.

Three one-hour periods per week.

***125. Retail Advertising 3 units**

The planning and execution of advertising for retailers, the principles of advertising layout, the newspaper and other media, and the management of advertising accounts.

Prerequisite: Journalism 20.

Three one-hour periods per week.

* Not given 1950-51.

126. Editorial Writing*3 units**

Discussion of current news and the writing of editorials on appropriate items.

Prerequisite: Journalism 20.

Three one-hour periods per week.

127. Journalism Laboratory**1-3 units**

A practical laboratory course under faculty supervision for the staffs of the student publications. Maximum degree credit to be allowed, three units.

Prerequisite: Journalism 20 or 27, or consent of the instructor.

Three one-hour periods per week.

* Not given 1950-51.

MODERN LANGUAGES**REQUIREMENTS FOR**

<i>Minor in French</i>			<i>Minor in Spanish</i>		
		<i>Units</i>			<i>Units</i>
Lower Division	French 1A-1B ----	8	Spanish 1A-1B ----	8	
	(Two years of high school French may be substituted for 1A)		(Two years of high school Spanish may be substituted for 1A)		
	French 2A-----	3	Spanish 2A-----	3	
	French 2B-----	3	Spanish 2B-----	3	
Upper Division	French 105A-105B-	6	Spanish 105A-		
	or French 101A-101B		105B -----	6	
			or Spanish 101A-101B		
Total units required		16-20			16-20

Teaching Minors for Candidates for General Secondary Credentials*French**Spanish*

Lower Division	10-14 units (see above)	10-14 units (see above)
Upper Division	12 units (see above)	12 units (see above)
Total units required	22-26	22-26

FRENCH**Lower Division**

- 1A. Elementary French (fall)** 4 units
 Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.

Five one-hour periods per week.

- 1B. Elementary French (spring)** 4 units

Continuation of French 1A.

Prerequisite: French 1A or one year of high school French.

Five one-hour periods per week.

- 2A. Intermediate French (fall)** 3 units

Reading of modern short stories, novels, plays, and works descriptive of French civilization. Review of essentials of grammar, conversation.

Prerequisite: French 1B or two years of high school French.

Three one-hour periods per week.

- 2B. Intermediate French (spring)** 3 units

Continuation of French 2A.

Prerequisite: French 2A or equivalent.

Three one-hour periods per week.

Upper Division

- 101A-101B. Advanced Grammar, Composition, and Reading (year)** 3-3 units

Review of the fundamentals of grammar; extensive study of advanced syntax; translation into French of moderately difficult English prose; intensive reading of literary texts with reports in French.

Prerequisite: French 2B or four years of high school French.

Three one-hour periods per week.

105A-105B. Survey of French Literature (year)**3-3 units**

A brief survey of French literature from its beginning to the present time. Extensive reading of works of representative authors of all periods.

Prerequisite: French 2B or four years of high school French.

Three one-hour periods per week.

SPANISH**Lower Division****1A. Elementary Spanish (fall)****4 units**

Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.

Five one-hour periods per week.

1B. Elementary Spanish (spring)**4 units**

Continuation of Spanish 1A.

Prerequisite: Spanish 1A or one year of high school Spanish.

Five one-hour periods per week.

2A. Intermediate Spanish (fall)**3 units**

Reading of modern short stories, novels, plays, and works descriptive of Latin-American civilization. Review of essentials of grammar, conversation.

Prerequisite: Spanish 1B or two years of high school Spanish.

Three one-hour periods per week.

2B. Intermediate Spanish (spring)**3 units**

Continuation of Spanish 2A.

Prerequisite: Spanish 2A or equivalent.

Three one-hour periods per week.

Upper Division**101A-101B. Advanced Grammar, Composition and Reading (year)****3-3 units**

Review of the fundamentals of grammar; extensive study of advanced syntax; translation into Spanish of moderately difficult English prose; intensive reading of literary texts with reports in Spanish.

Prerequisite: Spanish 2B or four years of high school Spanish.

Three one-hour periods per week.

105A-105B. Survey of Spanish Literature (year)**3-3 units**

A brief survey of Spanish literature from its beginning to the present time. Extensive reading of representative authors of Spain and Latin America.

Prerequisite: Spanish 2B or four years of high school Spanish.

Three one-hour periods per week.

The Division of Natural Sciences

Biological Sciences
Physical Sciences

Mathematics
Engineering

OBJECTIVES

The objectives of the Division of Natural Sciences are to provide :

1. A general background in natural sciences for those training to become teachers in the elementary and secondary schools of the State.
2. Curricula leading to :
 - a. General Secondary Credential with major in Life Science (or Physical Science) and General Science, enabling the student to teach in the secondary schools of the State ; this program involves a year of graduate work.
 - b. The B.S. Degree in Wildlife Management.
 - c. The B.S. Degree in Fisheries.
 - d. The A.B. Degree in Biological Sciences, with differentiated majors in Biology, Botany, and Zoology, for :
 - (1) Students interested in research or graduate study in these fields.
 - (2) Candidates for state or federal civil service positions in the biological sciences.
 - e. The A.B. Degree in Pre-Medical Sciences.
3. Lower division preparatory or pre-professional curricula for students of agriculture, animal and plant science, dentistry, forestry, laboratory technology, nursing, optometry, pharmacy, veterinary science, pollution control.
4. Lower division curricula in mathematics and physical science for engineering
5. Minors in biology, botany, zoology, chemistry, wildlife management, and mathematics, designed to furnish a cultural background in the natural sciences and an appreciation of the scientific philosophy.

NATURAL SCIENCES

<i>Requirements for the A. B. Degree with majors in (Starred courses are recommended, but not required)</i>		<i>Life and General Sciences (General Secondary)</i>	<i>Physical and General Sciences Credential)</i>
Lower Division			
Science :	Units	Units	
Biol. 10A-10B—General Biology-----	6	6	
Chem. 1A-1B—General College Chemistry-----	(10)	10	
or Chem. 2A-2B—General Elementary Chemistry and Elective in Science (4 units)-----	10		
Geol. 1A—General Geology-----	3*	3*	
Art 50—Elementary Photography-----	2*	2*	
Engl. 1A-1B—First-year Reading and Composition	6	6	
Or. II—Orientation II-----	1	1	
P.E. Activities (Including P.E. 5 or 15)-----	2	2	
Psych. 1—General Psychology-----	3	3	
Soc. Sci. (Including one year-course)-----	6	6	
Restricted Electives (Chosen from art, music, speech, foreign language, philosophy, English 46A-46B, 74A-74B)-----	6	6	
Math. A-B—Elementary Algebra and Plane Geom- etry if not taken in high school-----	-	-	
Fulfillment of requirement in United States history and constitution (See page 38.)			
Completion of lower division requirements for a teaching minor. See lists on page 39.			
Electives (lower division) to total-----	60	60	†
Upper Division			
Science—Total units required-----	Units	Units	
Physiol. 101—Human Physiology-----	(20)	(20)	
Electives-----	5	5	
Chosen from :	15	15	
Biol. 101—Marine Biology-----	x	-	
Biol. 103—Micro-Technique-----	x	-	
Biol. 114—Heredity and Evolution-----	x	-	
Bot. 107—Plant Ecology-----	x	-	
Bot. 110A-110B—Plant Taxonomy-----	x	-	
Bot. 114—Advanced Ornamental Plants	x	-	
Chem. 105—Quantitative Analysis-----	x	x	
Chem. 108—Organic Chemistry Lectures	x	x	
Chem. 109—Organic Chemistry Laboratory-----	x	x	
Phys. 104A-B-C—Advanced General Physics-----	-	x	
Phys. 105—Electrical Measurements --	-	x	
Phys. 135—Statics-----	-	x	
Phys. 150—Advanced Radio-----	-	x	
Phys. 151—Electronics-----	-	x	
Zool. 104—Field Zoology-----	x	-	
Zool. 112—Invertebrate Zoology-----	x	-	
Zool. 114—Comparative Anatomy of Vertebrates-----	x	-	
Zool. 135—Mammalogy-----	x	-	
Zool. 160—Embryology-----	x	-	
Zool. 165—Ornithology-----	x	-	
Zool. 170—Entomology-----	x	-	

† Students majoring in physical and general sciences are required to complete a teaching minor in mathematics.

Requirements for the A. B. Degree
with majors in
(Starred courses are recommended,
but not required)

Life and General Sciences
(General Secondary Credential)

Physical and General Sciences

Upper Division—Continued

	Units	Units
Total Biological Science required.....	18	5
Total Physical Science required.....	-	15
Educ. 113—Psychological and Social Foundations of Education	5	5
Educ. 153—Audio-Visual Education.....	2	2
Educ. 175—Course in Secondary Education.....	5	5
Educ. 195S—The Teaching of Science.....	2	2
Completion of upper division requirements for a minor.....		†
Electives to total.....	120	120
Total upper division required.....	40	40
Total required outside field of Science.....	60	60
Scholarship Requirements:		
In all work taken.....	1.00	1.00
In major and minor.....	1.00	1.00
In each education course taken.....	1.00	1.00
For admission to Graduate Division:		
In major	1.5	1.5
In all upper division work taken.....	1.5	1.5

Graduate Year

Upper Division or Graduate Courses in Science.....	6	6
Educ. 265—Guidance in Education.....	2	2
Educ. 275—Seminar in Secondary Education.....	2	2
Educ. 340A-340B—Directed Teaching in the Sec- ondary School	6	6
Major or minor or electives (Upper Division or Graduate courses) to total at least.....	30	30
Scholarship Requirement (all work in Graduate Year)	1.75	1.75

† Students majoring in physical and general sciences are required to complete a teaching minor in mathematics.

PRE-MEDICAL SCIENCES

Minimum requirements for admission to Class A medical colleges have been set up by the Council on Medical Education of the American Medical Association. Most medical schools, however, set up admission standards in excess of these minimums. For pre-medical students, a broad general education is prescribed, with emphasis on biological and physical sciences. This is probably best done by completing the requirements for a bachelor's degree before entering medical school. In some instances, students will be accepted by medical schools after the completion of 90 semester units of college work which includes the required courses.

The student should check the institutional requirements of the medical school he expects to enter. If he expects to transfer to the University of California, he should follow the requirements for their Associate in Arts degree, and must also include 8 units in a modern foreign language as part of the 16 units required.

Since acceptance by the medical school is conditioned largely upon scholarship, particularly in the required subjects, pre-medical students are urged to bear in mind the importance of distinctly high scholarship in the undergraduate work.

Many medical schools are now requiring all candidates to have taken the Medical College Admission Test during the year previous to expected admission. The student should consult his adviser about this test.

The prescribed course of study meets the standards established by the American Medical Association as well as the requirements for graduation from this College.

<i>Requirements for the A.B. Degree with majors in (Starred courses are recommended, not required)</i>	<i>Liberal Arts</i>			
	<i>Biology</i>	<i>Botany</i>	<i>Zoology</i>	<i>Pre-Medical</i>
	<i>(Without a teaching credential)</i>			
	<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
Biological Sciences:				
Biol. 10A-10B—General Biology-----	6	-	-	-
Bot. 1A-1B—General Botany-----	-	8	-	-
Bot. 4—Classification of Flowering Plants	3	-	3	-
Zool. 1A-1B—General Zoology-----	-	-	8	8
Physical Sciences:				
Phys. Sci. 5A-5B—Survey of the Physical Sciences or high school physics----	0-6	0-6	0-6	-
Chem. 1A-1B—General College Chemistry	-	-	-	10
Chem. 2A-2B—General Elementary Chem- istry-----	6	6	6	-
Phys. 2A-2B—General Physics Lectures	6 *	6 *	6 *	6
Phys. 3A-3B—General Physics Labora- tory-----	-	-	-	2
Engl. 1A-1B—First-year Reading and Com- position-----	6	6	6	6
Foreign Language (in one or two languages)	-	-	-	10 ¹
P.E. Activities (including P.E. 5 or 15)---	2	2	2	2
Psych. 1—General Psychology-----	3	3	3	3
Soc. Sci. (including one year-course)-----	12	12	12	12
Restricted Electives (chosen from art, music, speech, foreign language, philosophy, English 46A-46B, or 74A-74B)-----	6	6	6	6
Math. A-B-Elementary Algebra or Plane Geometry if not taken in high school.				
Fulfillment or requirement in United States history and constitution. See page 38.				
Completion of lower division requirements for a minor. (See lists on page 39.)				
Electives (lower division) to total at least--	60	60	60	60

¹ Two years of the same foreign language in high school will be counted in satisfaction of this requirement. Part of this requirement may be satisfied by upper division courses.

<i>Requirements for the A.B. Degree with majors in (Starred courses are recommended, not required)</i>	<i>Liberal Arts</i>			
	<i>Biology</i>	<i>Botany</i>	<i>Zoology</i>	<i>Pre-Medical</i>
	<i>(Without a teaching credential)</i>			
Upper Division				
	<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
	<i>(24²)</i>	<i>(24)</i>	<i>(24)</i>	<i>(24)</i>
Science—Total units required_____				
(Required courses are indicated by unit value; acceptable courses by letter "x." Zoology majors must complete at least three courses from those marked "3x" or "5x")				
Biol. 101—Marine Biology_____	x	x	x	—
Biol. 103—Micro-Technique _____	x	x	x	3
Biol. 114—Heredity and Evolution_____	x	x	3x	3
Biol. 199—Special Problems in Biology_____	x	—	—	—
Bot. 101A-101B—Mycology _____	x	x	—	x
Bot. 107—Plant Ecology _____	x	x	—	—
Bot. 110A-110B—Plant Taxonomy _____	x	x	—	—
Bot. 114—Advanced Ornamental Plants_____	x	x	—	—
Bot. 199—Special Problems in Botany_____	x	x	—	—
Physiol. 101—Human Physiology_____	5	x	5x	x
W.M. 136A-136B—Ichthyology _____	x	—	—	—
Zool. 104—Field Zoology _____	x	—	3x	x
Zool. 114—Comparative Anatomy of Vertebrates _____	x	—	3x	3
Zool. 135—Mammalogy _____	3	3	x	—
Zool. 160—Embryology _____	x	—	3x	3
Zool. 165—Ornithology _____	x	—	x	—
Zool. 170—Entomology _____	x	x	x	x
Zool. 199—Special Problems in Zoology_____	x	—	x	—
Elective in Biological Sciences_____	—	—	—	3
Chem. 105—Quantitative Analysis _____	—	—	—	3
Chem. 108—Organic Chemistry Lectures_____	3	3	3	3
Chem. 109—Organic Chemistry Laboratory_____	—	—	—	3
Electives to total_____	120	120	120	120
Total upper division required_____	40	40	40	40
Total required outside field of Science_____	60	60	60	60
Scholarship requirements:				
In all work taken_____	1.00	1.00	1.00	1.00
In major and minor_____	1.00	1.00	1.00	1.00

² Biology majors should not take more than 15 units in either Zoology or Botany.

Requirements for B.S. Degree with Major in		Wildlife Management	Fish- eries
Lower Division			
	Units	Units	
W.M. 2—Natural Resource Conservation	3	3	
W.M. 5—Wildlife Techniques	3	3	
W.M. 20—Principles of Wildlife Management	3	3	
F. 30—Hatchery Biology	—	—	2
Agric. 1—Agronomy	3	—	—
Engl. 1A-1B—First-year Reading and Composition	6	6	—
Bot. 1A—General Botany	4	4	—
Bot. 1B—General Botany	—	—	4
Bot. 4—Classification of Flowering Plants	3	—	—
Chem. 1A-1B—General College Chemistry	—	—	10
Chem. 2A—General Elementary Chemistry	3	—	—
Zool. 1A-1B—General Zoology	8	8	—
Zool. 35—Mammalogy	3	—	—
Zool. 65—Ornithology	3	—	—
P.E. Activities (Including P.E. 5)	2	2	—
Psych. 1—General Psychology	3	3	—
Econ. 1A-1B—Principles of Economics	6	6	—
Econ. 40—Elementary Statistics	3	3	—
Soc. Sci. Elective (See page 37.)	3	3	—
Restricted Electives (Chosen from art, music, foreign language, philosophy, English 46A-46B, or 74A-74B)	6	6	—
Completion of lower division requirements for a minor. (See lists on page 39.)	*	—	6-12
Math. A.B.—Elementary Algebra and Plane Geometry if not taken in high school.	—	—	—
Fulfillment of requirement in United States history and con- stitution. (See page 38.)	—	—	—
Upper Division			
F. 131—Management of Game Fish	—	—	3
F. 132—Commercial Fisheries	—	—	3
F. 136A-136B—Ichthyology	—	—	6
F. 141—Hydrobiology	—	—	4
W.M. 150—Management of Big Game	3	—	—
W.M. 152—Management of Fur Bearers	3	—	—
W.M. 171A—Management of Waterfowl	3	—	—
W.M. 171B—Management of Upland Game Birds	3	—	—
Agric. 104—Range and Farm Livestock Management	3	—	—
Bact. 101—General Bacteriology	—	—	5
Biol. 101—Marine Biology (or Zool. 112, Invertebrate Zool- ogy)	—	—	3
Biol. 114—Hereditry and Evolution	3	3	—
Bot. 110A-110B—Plant Taxonomy	6	—	—
Physiol. 101—Human Physiology	5	—	5
Zool. 170—Entomology	3	—	3
Completion of upper division requirements for minor	*	—	6-12
Electives to total	128	128	—
Total upper division units required	40	40	—
Total required outside of Wildlife field	60	60	—
Scholarship Requirements:			
In all work taken	1.00	1.00	—
In major and minor	1.00	1.00	—

* The requirements for the Wildlife Management curriculum prescribe an automatic minor in botany. No courses are necessary in addition to those outlined above.

Recommended Electives (Wildlife Management) :

Additional English composition, journalism, speech, plant ecology, law enforcement, typing, comparative anatomy of vertebrates, organic chemistry, trigonometry, embryology, nutrition, elementary photography, radio workshop.

Recommended Electives (Fisheries) :

Comparative anatomy of vertebrates, embryology, advanced marine biology, human anatomy, micro-technique, business correspondence, organic chemistry, nature drawing, typing.

REQUIREMENTS FOR

<i>Junior High School Major in Biological Sciences</i>		<i>Minor for Candidates for General Secondary Credential</i>
Lower Division		
Biol. 10A-10B	6 units	A minimum of 20 units in courses approved by the Divisional Chairman. (At least 6 units must be in the upper division.)
Bot. 4	3 units	
Elective	3 units	
Upper Division		
12 units of Upper Division Biology, Botany, or Zoology.....		
Total units required.....		
Additional requirements for the Junior High School Credential are given in detail on pages 50-51.		Total units required..... 20

LIBERAL ARTS MINORS

<i>Biology Minor</i>		<i>Botany Minor</i>	
Lower Division		Botany 1A-1B -----	8 units
Biology 10A-10B -----	6 units	or	
		Biology 10A-10B -----	6 units
		and Botany 4 -----	3 units
Upper Division		Chosen from :	
Chosen from :		Biol. 101	
Biology		Biol. 114, or	
Botany, or		Any U. D. Botany -----	
Zoology -----	6 units	6 units	
Total units required -----	12 units	Total units required -----14-15 units	
The Biology minor is recommended for credential candidates but is not advised for students planning to do graduate work at a university.			

<i>Zoology Minor</i>		<i>Chemistry Minor</i>	<i>Wildlife Management Minor</i>
Lower Division		Chemistry	Six units, including
Zoology 1A-1B 8 units		1A-1B	W. M. 2
or			
Biology			
10A-10B	6 units		
and Elective..	3 units		
Upper Division			
6 units chosen from—		Chemistry 108....	3 units
Any U. D. Zoology		Chemistry 105	
Biology 101		or	
Biology 114..		Chemistry 109....	3 units
Total units		Total units	
required_ 14-15 units		required	
		16 units	
		Six units, including	
		W. M. 120	
		Consult department for	
		choice of courses	
		Total units	
		required	
		12 units	

DESCRIPTION OF COURSES**BIOLOGICAL SCIENCES**

NOTE: A maximum of 16 semester units will be allowed toward the bachelor's degree in the introductory year courses in biology, botany, and zoology.

AGRICULTURE**Lower Division****1. Agronomy****3 units**

Principles of the culture and distribution of field crops. Seed selection, maintenance of soil fertility, preparation of the seed bed. Important factors in the development of typical cereal and forage crops.

Three one-hour periods per week.

Upper Division**100. Elementary Soil Science (spring)****3 units**

Introduction to the development and characteristics of soils with emphasis on soil conservation.

Three one-hour periods per week.

104. Range and Farm Livestock Management (spring)**3 units**

General principles and practices underlying the management of range and farm livestock.

Three one-hour periods per week.

Prerequisite: Agriculture 1.

ANTHROPOLOGY**1A. Physical Anthropology (spring)****3 units**

The origin and development of human races, the nature of man, and his place in the biological world.

Three one-hour periods per week.

BACTERIOLOGY**Lower Division****1. General Bacteriology (fall)****5 units**

Morphology, physiology, and classifications of bacteria, yeasts and molds. Laboratory training in micro-technique, preparation of culture media, sterilization, inoculation, identification. Bacteriology of air, water, soil, and dairy products. The rudiments of infection and bacterial diseases.

Three one-hour lectures and two three-hour laboratory periods per week.

Upper Division**101. General Bacteriology****5 units**

Upper division students may receive upper division credit for Bacteriology upon the consent of the instructor and the completion of assigned individual problems.

BIOLOGY**Lower Division****10A-10B. General Biology (year)****3-3 units**

An outline of the main facts and principles of plant and animal life. Lectures and demonstrations on the fundamental properties of living things; their functions, structures, classifications, life histories, and relation to human life.

Not to be taken concurrently with, or subsequently to either Zoology 1A-1B or Botany 1A-1B.

Two one-hour periods and one three-hour laboratory period per week.

Upper Division

Prerequisite to all upper division Biology courses is either Biology 10A-10B, Botany 1A-1B, or Zoology 1A-1B.

101. Marine Biology (summer session) 3 units

The habits, classification, development, and adaptations of marine life, with particular reference to conditions of the Humboldt coast.

Two one-hour lectures and one three-hour laboratory period or field trip per week.

103. Micro-Technique (fall) 2 or 3 units

Preparation of plant and animal tissue for microscopical study, including killing, fixing, staining, and sectioning methods.

Two or three three-hour periods per week.

114. Heredity and Evolution (fall) 3 units

The facts of heredity and Mendel's laws with the application of these laws to plants and animals, including man, are taken up through lectures and assigned reading. Study is made of the various theories of evolution.

Three one-hour periods per week.

190. Elementary School Science (fall) 2 units

(See Education 190S)

Objectives, methods, and content of the elementary school science program.

Not applicable toward major or minor.

Two one-hour periods per week.

199. Special Problems (fall, spring) 1-3 units

Limited to majors in Biological Sciences. Student and problem to be approved by the department. Student carries on independent study and investigation in consultation with instructor assigned to him.

BOTANY

NOTE.—Arcata is an excellent location for all kinds of botanical study. Ocean reefs are located within four miles, a heavy coniferous forest adjoins the campus on the east, and within forty miles horizontal travel one may reach all altitude ranges from sea level to five thousand feet.

Botany courses are fundamental courses to all students in the plant sciences and are basic courses for such occupations as the following: Plant Pathologist, Bacteriologist, Forester, Forest Pathologist, Farm Adviser, High School Science Teacher, Agriculturist, Nurseryman, Landscape Gardener or Architect, Florist, Seedsman, Horticulturist, etc.

The facilities of the department include well equipped laboratories, an herbarium of local flora, and a greenhouse.

Lower Division

1A-1B. General Botany (year) 4-4 units

First semester: The fundamentals of the morphology and physiology of flowers, fruit, seeds, seedlings, roots, stems, and leaves.

Second semester: Lower orders of plants, introduction to the taxonomy of the flowering plants.

Field trips will be made to points near the College, and a large part of the material used in the laboratory will be collected by the students.

Two one-hour lectures and two three-hour laboratory periods per week.

4. Classification of Flowering Plants (spring or summer session) 3 units

Lectures on the principles of classification; laboratory exercises on plant structure; practice in determinations by means of a manual.

Two one-hour lectures and one three-hour laboratory periods per week.

Upper Division

Prerequisite to all upper division courses in Botany is Botany 1A-1B, or Biology 10A-10B and consent of instructor.

101A-101B. Mycology (year)**3-3 units**

First semester: Morphology, taxonomy, and parasitism of representative genera of fungi. Phycomycetes and Ascomycetes. Field work on conspicuous Basidiomycetes not likely to be found in the spring.

Second semester: Basidiomycetes and fungi imperfecti.

One lecture and two three-hour laboratory periods per week.

107. Plant Ecology (fall)**3 units**

A general survey of plants and plant associations in relation to environment. Particular attention will be given to the study of successional and habitat factors as determining the local distribution of native plants as well as an adaptation of native plants to this area.

Three one-hour periods per week.

110A-110B. Plant Taxonomy (year)**3-3 units**

First semester: Forest botany with field identification, and a critical study of the characters and habitats of gymnosperms.

Second semester: A study of representative orders of flowering plants, adaptation, structure, classification, and geographical distribution; range botany.

One one-hour lecture and two three-hour laboratory periods per week.

114. Advanced Ornamental Plants (spring)**3 units**

Study of the more common ornamental trees and shrubs, with principles of landscaping. Greenhouse work in various methods of propagation, potting, culture, etc.

One lecture and two three-hour laboratory periods per week.

PHYSIOLOGY AND ANATOMY**Lower Division****1. Elementary Physiology (spring)****3-5 units**

A general introductory course on human physiology. (May be taken as a lecture course only, for three units.)

Three one-hour lectures and two three-hour laboratory periods per week.

66. Human Anatomy (spring)**3 units**

Demonstration and laboratory study of human dissections, models, and prepared microscopic slides. Designed particularly for nurses and Physical Education majors.

Prerequisite: Zoology 1A.

One one-hour lecture and two three-hour laboratory periods per week.

Upper Division**101. Human Physiology (spring)****3-5 units**

A more advanced course for upper division students.

153. Physiology of Exercise**3 units**

See PE 153.

WILDLIFE MANAGEMENT AND FISHERIES**Lower Division****2. Natural Resource Conservation (fall)****3 units**

Designed to acquaint the student with the broad aspects of natural resource conservation, with stress on the interaction of the many agencies concerned; modern conservation methods, and the history of wildlife management. Organized to provide teachers with materials for teaching good conservation habits.

Three one-hour periods per week.

5. Wildlife Techniques (spring) 3 units

Designed to teach wildlife students the diversified and practical duties required of them. Fly-tying, preparation of museum specimens, knot-tying, ballistics, evidence collection, dressing and preserving wild meat, breeds of dogs, fishing and trapping techniques.

One lecture and two two-hour laboratory periods per week.

20. Principles of Wildlife Management (fall) 3 units

An intensive study of wildlife management practices. The theory and application of scientific research as it applies to wild animals. Measurement of game and fish populations and productivity. Economic aspects of game populations.

Three one-hour periods per week.

Prerequisite: W.M. 2.

30. Hatchery Biology (spring) 2 units

The artificial propagation of trout, salmon and steelhead. Water manipulations, disease control to be covered. Laboratory periods are conducted in the fish hatchery. Each student will have the personal responsibility for rearing several thousand fish.

One lecture and two two-hour laboratory periods per week.

Upper Division

120. Principles of Wildlife Management (fall) 3 units

See W.M. 20.

Students *minoring in Wildlife* may receive upper division credit for this course. Major students take it in the lower division.

Prerequisite: W.M. 2 and upper division status.

131. Management of Game Fish (spring) 3 units

The fresh-water game fishes of North America with special reference to trout and spiny rayed fishes. Stream and lake management and farm fish pond management.

Two one-hour lectures and one three-hour laboratory period per week.

132. Commercial Fisheries (fall) 3 units

The biology and management of important marine fish and shellfish. Trips at sea on commercial vessels to observe harvesting methods.

Two one-hour lecture periods and one three-hour laboratory period per week.

Prerequisite: W.M. 20.

136A-136B. Ichthyology (year) 3-3 units

The classification, evolution, distribution, and ecology of fishes. Particular attention to groups that are of economic and recreational importance.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: Zool. 1A-1B.

141. Hydrobiology (fall) 4 units

The study of the relationships between aquatic organisms and their environment. Deals with physical, chemical, and biological phenomena of fresh and marine waters. Stream and lake surveys and pollution studies are included in field work.

Two one-hour lectures and two three-hour laboratory periods per week.

Prerequisite: Chem. 1A or Chem. 2A.

150. Management of Big Game (fall) 3 units

Species of big game mammals; their life histories, distribution, management, conservation, values. Field trips for the study of important species in their natural habitats.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: Zoology 35 and W.M. 20.

152. Management of Furbearers (fall) 3 units

Species of furbearers; their life histories and management. Emphasis on wild species with field trips to local fur farms.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisite: W.M. 20 and Zool. 35.

- 171A. Management of Waterfowl (fall) 3 units**
 Study of waterfowl and allied species, their life histories and management in North America.
 Two one-hour lectures, one three-hour laboratory period per week.
 Prerequisite: Zoology 65 and W.M. 20.
- 171B. Management of Upland Game Birds (spring) 3 units**
 Intensive study of upland game birds, their life histories and management in the United States. Liberation, population estimates and rearing. Each student will have a personal responsibility in rearing about 800 pheasants a season in the college rearing pens.
 Two one-hour lectures, one three-hour laboratory period per week.
 Prerequisite: Zoology 65 and W.M. 20.
- 199. Special Problems in Fisheries and Wildlife Management 1-3 units**
 Individual study on selected problems in the Wildlife field for upper division students who have demonstrated outstanding ability and interest.
 NOTE: For Game Law Enforcement, see Sociology 8, Sociology 108.

ZOOLOGY

Lower Division

- 1A-1B. General Zoology (year) 4-4 units**
 A year course dealing with principles of animal biology together with a review of representative animal forms.
 Two one-hour lectures and two three-hour laboratory periods per week.
- 35. Mammalogy (fall) 3 units**
 Study of the classification, anatomy, distribution, and life histories of mammals.
 Two one-hour lectures and one three-hour laboratory period per week.
- 65. Ornithology (spring or summer session) 3 units**
 Classification, life histories, migration, habits, and special modifications of birds.
 Identification in field and laboratory.
 Two one-hour lectures and one three-hour laboratory period per week.

Upper Division

Prerequisite to all upper division courses is Zoology 1A-1B, or Biology 10A-10B and consent of instructor.

- 104. Field Zoology (fall or summer session) 3 units**
 Collection, identification, and preservation of common invertebrates and vertebrates of Humboldt Bay region. Discussion of ecological relationships. Each student works on an individual problem.
 Two one-hour lectures and one three-hour laboratory period per week.
- 112. Invertebrate Zoology (fall) 3 units**
 A study of animals without backbones, with special reference to the natural history and classification of the animals of the seashore.
 Two one-hour lectures and one three-hour laboratory period per week.
- 114. Comparative Anatomy of Vertebrates 3 units**
 Two one-hour lectures and one three-hour laboratory period per week.
- 135. Mammalogy (fall) 3 units**
 See Zoology 35. Students receiving upper division credit must complete an additional problem in mammalogy.
- 160. Embryology (spring) 3 units**
 The maturation of egg and sperm; fertilization; and the early development of the amphibian, chick, and mammal.
 One one-hour lecture and two three-hour laboratory and demonstration periods per week.

165. Ornithology (spring or summer session) **3 units**
See Zoology 65. Students receiving upper division credit must complete an additional problem in ornithology.

170. Entomology (spring) **3 units**
The classification, life histories, distribution, and control of insects, with special application to agriculture and game management.
Two lectures and one three-hour laboratory period.

199. Special Problems **1-3 units**
Individual work in zoology for upper division students who show special aptitude. Conference, reading, and research.

Graduate Division

Biology 201A-201B. Advanced Field Biology **3-3 units**
Original study on special topics in the field and laboratory. Research on life histories, distributional problems, and classification. (Special attention paid to the life of the area between Mad River and the Trinity River.)

Botany 212. Marine Algae **3 units**
Taxonomy, life histories, and relationships of the marine algae of the Pacific Coast.

Zoology 212. Advanced Marine Biology **3 units**
An advanced course dealing with problems in marine ecology, classification, and life histories.

PHYSICAL SCIENCES

5A-5B. Fundamentals of the Physical Sciences (year) **3-3 units**
First Semester: Astronomy and weather, light and sound, geology.
Second Semester: Practical application; communication; transportation.
5A is not prerequisite to 5B.
Two one-and-one-half-hour lectures or demonstration periods per week.

CHEMISTRY

Lower Division

1A-1B. General College Chemistry (year) **5-5 units**
The fundamental concepts of chemistry, with emphasis on the relation of chemical behavior to atomic structure.
Prerequisites: High school chemistry or physics, and at least two years of high school mathematics.
Three one-hour lecture and two three-hour laboratory periods per week.

2A-2B. General Elementary Chemistry (year) **3-3 units**
An elementary course in general chemistry, designed for majors in nursing, physical education, and home economics. Emphasis on chemical principles rather than mathematical applications.
Two lectures and one three-hour laboratory period per week.

Upper Division

105. Quantitative Analysis (fall) **3 units**
Principles and methods of quantitative analysis. Study of methods used in industrial, agricultural and medical work.
Two lectures and one three-hour laboratory period per week.
Prerequisite: Chemistry 1B with grade of "C" or higher.

- 108. Organic Chemistry Lectures** (spring and summer session) **3 units**
 A survey of the carbon compounds.
 Prerequisite: Chemistry 1A or Chemistry 2A-2B.
 Three one-hour lecture periods per week.
- 109. Organic Chemistry Laboratory** (spring) **3 units**
 Study of the carbon compounds in the laboratory. Taken concurrently with or following Chemistry 108.
 Three three-hour laboratory periods per week.

GEOLOGY

- 1A. General Geology** (fall) **3 units**
 A survey of the nature and structure of the material composing the earth and of the various processes which have shaped or are still shaping the earth.
 Three one-hour periods per week and field trips.

PHYSICS

Lower Division

- 2A-2B. General Physics Lecture** (year) **3-3 units**
 A general survey of physics for nonengineering students. Less emphasis is placed on the quantitative aspect of the subject and the mathematical treatment is minimized.
 Three one-hour lecture and demonstration periods and one one-hour discussion period per week.
 Prerequisite: Mathematics C. (May be taken concurrently.)
- 3A-3B. General Physics Laboratory** (year) **1-1 unit**
 Experimental work in mechanics, properties of matter, heat, sound, light, magnetism, and electricity. To accompany Physics 2A-2B.
 One three-hour laboratory period per week.
- 4A. General Physics** (spring) **4 units**
 Mechanics and properties of matter.
 Three lectures and one three-hour laboratory period per week.
 Prerequisite: Mathematics 3A-3B, or its equivalent.
 Mathematics 3B may be taken concurrently.
- 4B. General Physics** (fall) **4 units**
 Magnetism, electricity, and modern physics.
 Prerequisite: Physics 4A. Mathematics 4A or 104A may be taken concurrently.
 Three lectures and one three-hour laboratory period per week.
- 4C. General Physics** (spring) **4 units**
 Wave motion, heat, sound, and light.
 Prerequisite: Physics 4A. Mathematics 4B or 104B may be taken concurrently.
 Three lectures and one three-hour laboratory period per week.
- 15. Elementary Physics of Sound and Color** (fall) **3 units**
 Science of sound, musical instruments, and acoustics, theory of color. For art and music majors.
 Three one-hour periods per week.
- 20. Elementary Photography** **2 units**
 See Art 50.
- 21. Advanced Photography** **2 units**
 See Art 51.
- 30. Elementary Meteorology** (fall or summer session) **3 units**
 Absorption and distribution of solar energy; structure and dynamics of the atmosphere; and methods of recording and predicting the weather. Designed especially for students in aeronautics.

Upper Division

104A-104B-104C. General Physics (spring, fall, spring) **4-4-4 units**
See Physics 4A-4B-4C. For General Secondary Credential candidates only.

105. Electrical Measurements **3 units**

Theory and practice in methods of measurement of resistance, electromotive force, capacitance, inductance and frequency; using direct current, and alternating current of both audio and radio frequency.

Nine hours of laboratory periods per week.

Prerequisite: Mathematics 4B, Physics 4A-4B-4C or equivalent.

135. Statics (spring) **3 units**

See Engineering 35. For General Secondary Credential candidates only.

150. Advanced Radio (fall) **3 units**

See Industrial Education 150. For General Secondary Credential candidates only.

151. Electronics (spring) **2-3 units**

Nonradio applications of electronic tubes; theory and operation. One lecture and Two three-hour laboratory periods per week.

ENGINEERING

1A-1B. Plane Surveying (year) **3-3 units**

Principles, field practice, calculation, and mapping.

Prerequisite: Plane trigonometry and Industrial Education 7A or its equivalent.

Two one-hour lecture and one three-hour laboratory periods per week.

8. Materials of Engineering Construction **2 units**

Structural properties and adaptability of various materials.

Prerequisite: Sophomore standing in Engineering.

Two one-hour periods per week.

22. Engineering Drawing (spring) **2 units**

Fundamentals of engineering drawing. Covers orthographic projection, geometrical construction, pictorial drawing and sketching, sectioning, fasteners, and simple working drawings.

Prerequisite: Ind. Educ. 7A (or a year of high school mechanical drawing).

Six hours per week, lecture and drafting.

23. Descriptive Geometry (fall) **2 units**

Principles of descriptive geometry and the solution of three-dimensional problems. Applications in various branches of engineering.

Prerequisite: Engineering 22, Math 3A.

Two one-hour lectures and two two-hour drafting periods per week.

24. Advanced Engineering Drawing (spring) **2 units**

Freehand sketching in orthographic and pictorial projections; working drawings; structural detailing; electrical and piping layouts; and introduction to graphic integration and differentiation.

Prerequisite: Engineering 23.

Six hours per week, lecture and drafting.

35. Engineering Statics (spring) **3 units**

Forces and force systems, equilibrium conditions, trusses and frames, friction, first and second moments of areas, moments of inertia of masses.

Prerequisite: Physics 4A and Mathematics 4A, or 104A, 4B or 104B. (104B may be taken concurrently.)

Three one-hour periods per week.

40. Engineering Metallurgy (fall)**3 units**

Structure of metals and alloys. Properties of metals and alloys as related to their structure and composition.

Prerequisite: Physics 4A.

Two lectures and one three-hour laboratory period per week.

41. Manufacturing Processes (spring)**4 units**

Nonmetallic materials used in manufacturing and their processing, plastics, and wood products; casting and forming processes. Use of precision gauges and standard machine tools. Welding. Decorative and protective coatings.

Prerequisite: Engineering 23 and 40.

Two lectures and two three-hour laboratory periods per week.

MATHEMATICS

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor in Mathematics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	
Math. 3A-3B---- 6 units	Math. 3A-3B---- 6 units	A minimum of 20 units in courses approved by the instructor.
Electives ----- 6 units		
Upper Division	Upper Division	
Math. 101A-101B 6 units	Math. 104A-104B 6 units	(At least 6 units must be in the upper division.)
Math. 104A-104B 6 units		
Total units required ---24 units	Total units required ---12 units	Total units required ---20 units

NOTE: Other requirements for the Junior High School Credential are given on pages 50-51.

DESCRIPTION OF COURSES

Lower Division

If the student has not had Elementary Algebra and Plane Geometry in high school, it is necessary that he pass courses in these subjects if he is a candidate for the A.B. or the B.S. degree. Subcollegiate, noncredit courses in Mathematics A (Elementary Algebra), and Mathematics B (Plane Geometry) will be offered whenever there is sufficient demand.

C. Trigonometry (fall) 3 units

Plane trigonometry and spherical right triangles.

Prerequisite: Plane geometry and one and one-half years of high school algebra or Mathematics D.

Three one-hour periods per week.

D. Intermediate Algebra (fall) 3 units

Quadratic equations; exponents and radicals; theory of equations; elementary determinants; progressions; and the binominal theorem.

Prerequisite: One year of high school algebra.

Three one-hour periods per week.

†E. Solid Geometry (spring) 2 units

Prerequisite: Elementary algebra and plane geometry.

Two one-hour periods per week.

1. College Algebra (spring) 3 units

Theory of equations; determinants; equations of third and fourth degrees.

Prerequisite: Mathematics C and D.

Three one-hour periods per week.

2. Mathematics of Finance (spring) 2 units

See Business Administration 15.

3A. Analytic Geometry and Calculus (fall) 3 units

Elements of analytic geometry and differential calculus. Also a survey of the principles of integral calculus, with applications to mechanics.

Prerequisite: Mathematics C.

Three one-hour periods per week.

† Given if sufficient demand.

3B. Analytic Geometry and Calculus (spring)**3 units**

A continuation of differential and integral calculus unified with analytic geometry. This course also includes an introduction to the calculus of vectors, and polar coordinates.

Prerequisite: Mathematics 3A.

Three one-hour periods per week.

50. Slide Rule Computation (fall)**1 unit**

Theory and practice of the slide rule, from simple multiplication and division through trigonometric calculations and exponential equations.

One one-hour period per week.

Upper Division**101A. Elementary Mathematics for Advanced Students (fall)****3 units**

Selected topics in algebra and geometry with particular emphasis upon historical development. Designed for students who are preparing to teach mathematics in secondary schools.

Prerequisite: Mathematics 104A-104B, 1.

Three one-hour periods per week.

101B. Elementary Mathematics for Advanced Students (spring)**3 units**

A continuation of course 101A.

Prerequisite: Mathematics 104A-104B, 1. 101A is not prerequisite to 101B.

Three one-hour periods per week.

104A-104B. Integral Calculus and Solid Analytics (year)**3-3 units**

First semester continues development of integration and series.

Second semester continues partial differentiation, quadric surfaces and multiple integration.

Prerequisite: Mathematics 3A-3B.

Three one-hour periods per week.

110A-110B. Advanced Engineering Mathematics (year)**2-2 units**

For engineering students who expect to get a degree in engineering. A more intensive study of integration and physical applications, conjugate functions, hyperbolic functions, Fourier series, differential equations.

Prerequisite: Mathematics 4A-4B.

Two one-hour periods per week.

The Division of Social Sciences

Business
Economics
Geography

History
Philosophy
Political Science

Psychology
Sociology

OBJECTIVES

The objectives of this division are:

1. To contribute to the general education of all students, especially to an understanding of those institutions and problems that relate to the intelligent exercise of the duties of citizenship. This objective is especially important for future teachers.
2. Curricula leading to
 - a. The Master of Arts Degree in the Social Sciences.
 - b. General Secondary Credential, authorizing service in the secondary schools of the State. This program involves a year of graduate work. Majors are available in the social sciences and business education.
 - c. The A.B. Degree with majors in
 - (1) Social Sciences, providing a cultural education emphasizing the social studies.
 - (2) Social Service, for those interested in social welfare work.
 - (3) Economics, affording preparation for graduate study or employment in industry or government service.
 - (4) History, for students interested in graduate work in this specialized field.
 - (5) Business Administration, for those seeking managerial positions in business or government service.
 - (6) Business Education, with the Special Secondary Credential, authorizing the holder to teach business subjects in the secondary schools of California.
 - (7) Secretarial Science for the training of executive secretaries.
3. One- and two-year terminal vocational courses in Stenographic and Secretarial Training, and General Business.

THE MASTER OF ARTS DEGREE

The Master of Arts Degree in the Social Sciences will be conferred upon students who meet the specific requirements, described in detail on pages 35-37.

SOCIAL SCIENCES

*Requirements for the A.B. Degree and a Fifth Year Leading to the General
Secondary Credential With a Major in Social Sciences*

Lower Division		<i>Units</i>
Social Sciences:		
Econ. 1A-1B—Principles of Economics	-----	6
Hist. 4A-4B—History of Western Civilization	-----	6
Pol. Sci. 1A-1B—Introduction to Government <i>or</i>		
Soc. 1A-1B—Introduction to Sociology	-----	6
Engl. 1A-1B—First-year Reading and Composition	-----	6
Nat. Sci.—(See page 37.)	-----	12
Or. II—Orientation II	-----	1
P. E. Activities—(Including P. E. 5 or 15)	-----	2
Psych. 1—General Psychology	-----	3
Restricted Electives (Chosen from art, music, foreign language, philosophy, speech, English 46A-46B or 74A-74B)	-----	6
Math. A-B—Elementary Algebra and Plane Geometry if not taken in high school.		
Fulfillment of requirement in United States history and constitution. (See page 38.)		
Completion of lower division requirements for a secondary teaching minor. (See lists on page 39.)		
Electives (lower division) to total	-----	60
Upper Division		
U.D. Economics—Electives	-----	9
U.D. History—Electives	-----	9
NOTE: If the student elects history as his field of emphasis, his program must include the following:		
Hist. 197—Aids to Historical Research <i>or</i>		
Hist. 198—History and Historians	-----	1 unit
Hist. 199A or 199B—Special Studies in History	-----	2 units
		<i>Units</i>
Educ. 113—Psychological and Social Foundations of Education	-----	5
Educ. 153—Audio-Visual Education	-----	2
Educ. 175—Core Course in Secondary Education	-----	5
Educ. 195SS—The Teaching of Social Studies	-----	2
Completion of upper division requirements for a minor.		
Electives to total	-----	120
Total upper division required	-----	40
Total required outside field of Social Sciences	-----	60
Scholarship requirements:		
In all work taken	-----	1.00
In major and minor	-----	1.00
In each education course taken	-----	1.00
For admission to the Graduate Division:		
In major	-----	1.5
In all upper division work taken	-----	1.5

Social Sciences :		Graduate Year	Units
A year course in either Economics or History (Graduate course) -----			6
Educ. 265—Guidance in Education -----			2
Educ. 275—Seminar in Secondary Education -----			2
Educ. 340A-340B—Directed Teaching in the Secondary School -----			6
Major or minor or electives (Upper Division or Graduate courses) to total			
at least -----			30
Scholarship Requirement (all work in Graduate Year) -----			1.75

BUSINESS ADMINISTRATION

The program in business administration is flexible enough in the upper division to permit some degree of specialization for those students interested in emphasizing any one of the following fields of concentration :

Accounting : At least nine units chosen from B.A. 160A, 160B, 161, 162, 169.

Labor-management Relations : At least nine units chosen from B.A. 153, Econ. 106, 155, 185, or other courses approved by the major adviser.

Retail Merchandising : At least nine units chosen from B.A. 125, 126, 134.

General Business : Nine units in the field of the student's special interest, approved by major adviser.

All students enrolled in the secretarial and stenographic curricula must take a spelling test. Those who fail to pass this test will be required to enroll in the class in B.A. 4, Word Study.

The four-year program in secretarial science is designed to equip students for positions as executive secretaries or office supervisors. Practical experience will be provided through the cooperation of business and professional employers. During the school year, students will be given opportunity for practical experience in actual employment situations under the supervision of the business administration staff.

BUSINESS EDUCATION

The curriculum in business education leads either to the General or the Special Secondary Credential. Both follow essentially the same undergraduate program, except that directed teaching for the General Secondary Credential is usually done in the graduate year. Candidates for these credentials must verify at least 1,000 hours (approximately six months) of practical experience that is related to the student's field of specialization. They must complete 15 units in either the Bookkeeping-Accounting or the Secretarial subfield, but is is highly desirable to extend professional preparation to two or more subfields.

NOTE : In the general business subfield, 12 semester hours of work in addition to the requirements for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six of the twelve must be in business or economics.

Requirements for the A.B. Degree with Majors in	Liberal Arts			
	Social Sciences	Eco- nomics	History	Social Service
	(Without a teaching credential)			
Note: Starred courses are recom- mended, not required.				
Lower Division				
Social Sciences:	Units	Units	Units	Units
B. A. 14A-14B—Principles of Accounting---	-	6	-	-
Econ. 1A-1B—Principles of Economics-----	6	6	6*	6
Econ. 40—Elementary Statistics -----	-	3	-	3
Geog. 5—Economic Geography -----	-	3	-	-
Hist. 4A-4B—History of Western Civilization -----	6	6 or (6) or	6	-
Hist. 8A-8B—History of the Americas-----	-	(6) or	6	-
Pol. Sci. 1A-1B—Introduction to Government-----	6 or (6)	(6) or (6)	-	-
Soc. 1A-1B—Introduction to Sociology-----	(6)	(6)	-	6
Total Social Sciences required-----	(18)	(24)	(12)	(15)
Engl. 1A-1B—First-year Reading and Composition -----	6	6	6	6
Foreign Language -----	-	-	10 ¹	-
H. H. 1—Personal Hygiene -----	-	-	-	2
H. Ec. 20—General Nutrition -----	-	-	-	2
Math. D—Intermediate Algebra-----	-	3 ²	-	3 ²
Nat. Sci. (See page 37.)-----	12	12	12	12
P.E. Activities (Including P.E. 5 or 15)-----	2	2	2	2
Psych. 1—General Psychology -----	3	3	3	3
Restricted Electives (Chosen from art, music, for- eign language, philosophy, speech, English 46A-46B or 74A-74B)-----	6	6	6	6
Math. A-B—Elementary Algebra or Plane Geom- etry if not taken in high school.				
Fulfillment of requirement in United States his- tory and constitution. (See page 38.)				
Completion of lower division requirements for a minor. (See page 39.)				
Electives (lower division) to total-----	60	60	60	60

¹ History majors are advised to complete at least six additional units in foreign language or the equivalent.

² Desirable as prerequisite to elementary statistics. Consult the instructor as to adequacy of background in mathematics.

Requirements for the A.B. Degree with Majors in	Liberal Arts			
	Social Sciences	Eco- nomics	History	Social Service
	(Without a teaching credential)			
Note: Starred courses are recom- mended, not required.				
Upper Division				
Social Sciences:	Units	Units	Units	Units
Econ. 113—Economic and Social History of the United States-----	-	3*	-	-
Econ. 135—Principles of Money and Banking -----	-	3	-	-
Econ. 150—Labor Economics -----	-	3	-	3
Econ. 188—World Population and Resource <i>or</i>				
Econ. 190A—Principles of International Commerce -----	-	3*	-	-
U. D. Econ.—Electives -----	6	12	-	-
U. D. Econ. or B. A.—(Approved courses)—	-	6	-	-
Hist. 197—Aids to Historical Research <i>or</i>				
Hist. 198—History and Historians-----	-	-	1	-
Hist. 199A or 199B—Special Studies in History -----	-	-	2	-
U. D. Hist.—Electives-----	6	-	12 ¹	-
Soc. 102—Methods in Social Work-----	-	-	-	3
Soc. 110A-110B—The Social Services-----	-	-	-	6
U. D. Soc.—Electives -----	-	-	-	15
U. D. Social Science—Electives-----	6	-	9	-
Total Social Science Required-----	(18)	(24)	(24)	(27)
H. H. 160—Public Health -----	-	-	-	3
H. Ec. 150—Child Care and Training-----	-	-	-	2*
Psych. 105—Social Psychology -----	-	-	-	3*
Completion of upper division requirements for a minor.				
Electives to total-----	120	120	120	120
Total upper division required-----	40	40	40	40
Total required outside field of Social Sciences -----	60	60	60	60
Scholarship Requirements:				
In all work taken-----	1.00	1.00	1.00	1.00
In major and minor-----	1.00	1.00	1.00	1.00

¹ Must include a survey course of broad scope in each of two fields, European and American history.

Requirements for the A.B. Degree With Majors in	Business Education					Business	Secre-
	Required of all	Sub-Fields				Adminis-	tarial
		Bookkeeping and Accounting	Secretarial	General Business	Merchandising	tration	Science
						(Without a teaching credential)	
Lower Division							
		Units			Units	Units	
B.A. 1A-1B-1C—Shorthand I, II, III-----	-	-	6	-	-	-	9
B.A. 2A-2B-2C—Typewriting I, II, III-----	-	-	4	4	-	-	6
B.A. 5A-5B—Business Machines-----	-	2	2	-	-	-	2
B.A. 14A-14B—Principles of Accounting-----	6	-	-	-	6	-	-
B.A. 15—Mathematics of Finance-----	-	2	-	-	2	-	-
B.A. 18—Business Law-----	3	-	-	-	3	-	3
B.A. 21—Business Mathematics-----	-	-	-	3	-	-	3
B.A. 41—Business English-----	-	-	-	-	-	-	3
† B.A. 42—Penmanship-----	-	1	1	1	-	-	1
B.A. 50—Salesmanship-----	-	-	-	3	3	(3) ¹	-
Econ. 1A-1B—Principles of Economics-----	6	-	-	-	6	-	6
Econ. 40—Elementary Statistics-----	-	-	-	-	3	-	-
Engl. 1A-1B—First-year Reading and Composition-----	6	-	-	-	6	-	6
Geog. 5—Economic Geography-----	3	-	-	-	3	-	3
Math. D—Intermediate Algebra-----	-	3 ²	-	-	-	-	3 ²
Nat. Sci. (See page 37)-----	12	-	-	-	12	-	12
Or. II—Orientation II-----	1	-	-	-	-	-	-
P.E. Activities (Including P.E. 5 or 15)-----	2	-	-	-	2	-	2
Psych. 1—General Psychology-----	3	-	-	-	3	-	3
Soc. Sci. Chosen from:							
Hist. 4A-4B—History of Western Civilization)							
Hist. 8A-8B—History of the Americas)							
Pol. Sci. 1A-1B—Introduction to Government)	-	-	-	-	6	-	-
Soc. 1A-1B—Introduction to Sociology)							
Restricted Electives (Chosen from art, music, for- eign language, philosophy, speech, English							
46A-46B or 74A-74B-----	6	-	-	-	6	-	6 ³
Math. A-B—Elementary Algebra or Plane Geometry if not taken in high school.							
Fulfillment or requirement in United States history and constitution. (See page 38.)							
Completion of lower division requirements for a minor. (See lists on page 39.)							

¹ Recommended for Business Administration majors who elect the Retail Merchandising option.

² Desirable as prerequisite to Elementary Statistics. Consult the instructor of this course as to the adequacy of background in Mathematics.

³ Secretarial Science majors are required to take Speech 1 and 2 or 3.

† Requirement may be satisfied by examination.

Business Education

Requirements for the A.B. Degree
With Majors in

Requirements for the A.B. Degree With Majors in	Required of all	Sub-Fields				Business Adminis- tration	Secre- tarial Science
		Bookkeeping and Accounting	Secretarial	General Business	Merchandising		
Upper Division							
B.A. 101—Business Correspondence -----	-	3	-	-	-	3	
B.A. 110A-110B—Secretarial Practice -----	-	-	-	-	-	3	
B.A. 111—Office Management -----	-	2 or	-	-	-	2	
B.A. 112—Secretarial Training -----	-	(3)	3	-	-	3	
B.A. 118—Business Law II -----	3	-	-	-	3	3	
B.A. 120—Business Organization -----	-	3	-	3	3	3	
B.A. 125—Retail Advertising -----	-	-	-	-	3	3	
B.A. 126—Retail Store Management -----	-	-	-	-	3	-	
B.A. 130—Business Finance -----	-	-	-	-	3 ¹	-	
B.A. 134—Marketing -----	-	-	-	-	3	3 or	
Econ. 105—Consumer Economics -----	-	-	-	-	-	(3)	
B.A. 152—Principles of Business Education -----	3 ²	-	-	-	-	-	
U. D. Accounting courses -----	-	3	-	-	-	-	
Econ. 103—Business Cycles -----	-	-	-	-	3	-	
Econ. 106—Social-Economic Reform Movements -----	3	-	-	-	-	-	
Econ. 135—Principles of Money and Banking -----	-	-	-	3	-	3	
Econ. 150—Labor Economics -----	-	-	-	-	3	-	
U. D. Econ.—Elective -----	-	-	-	-	3	-	
U. D. B.A. or Econ.—Electives chosen in consultation with the major adviser -----	-	6	3	3	-	9	3
Educ. 113—Psychological and Social Foundations of Education -----	5	-	-	-	-	-	
Educ. 153—Audio-Visual Education -----	2	-	-	-	-	-	
Educ. 175—Core Course in Secondary Education -----	5	-	-	-	-	-	
Educ. 195B—The Teaching of Business Education -----	2	-	-	-	-	-	
Educ. 340A—Directed Teaching -----	4 ²	-	-	-	-	-	
Completion of upper division requirements for a minor.						†	
Electives to total -----	120					120	120
Total upper division required -----	40					40	40
Total required outside major field -----	60					60	60
Scholarship Requirements:							
In all work taken -----	1.00					1.00	1.00
In major and minor -----	1.00					1.00	1.00
In each Education course taken -----	1.00					-	-
For admission to the Graduate Division:							
In major -----	1.5						
In all upper division work taken -----	1.5						

Graduate Year (General Secondary Credential Only)

	Units
B.A. 252—Philosophy of Business Education	3
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Major or minor or electives (Upper Division or Graduate course) to total at least	30
Scholarship Requirement (all work in Graduate year)	1.75

¹ Students who have completed Business Administration 160A-160B with a grade of "C" or better will be excused from this course requirement.

² Special Secondary Credential only.

† Requirements provide for automatic minor in economics. No other minor is required.

TERMINAL COURSES IN SECRETARIAL TRAINING

The College offers one- and two-year programs in stenographic, secretarial training, and general business. Students electing the two-year program must complete a minimum of 60 semester units of college work and must maintain a scholarship average of "C" in order to receive the two-year diploma.

Students taking the one-year course must complete a minimum of 30 semester units and maintain a scholarship average of "C" in order to qualify for the one-year diploma.

Training includes practice in operating the mimeograph, dictaphone, and other office machines in common use.

Attention is called to the fact that the college offers a four-year program in secretarial science which is recommended for those students who wish to obtain a more thorough training for positions as executive secretaries, office supervisors, and other positions calling for greater responsibility or specialized training. (See page 132.)

The placement of graduates is a function assumed by the Division of Social Sciences. Every effort is made to secure positions for current and former graduates. In recent years, the demand has far exceeded the supply.

<i>Suggested program for</i>	<i>Secretarial Training (Two-year)</i>	<i>Stenographic Training (One-year)</i>	<i>General Business</i>
Freshman Year	Units	Units	Units
B.A. 1A—Shorthand I	3	—	—
B.A. 1B—Shorthand II	3	3	—
B.A. 1C—Shorthand III	—	3	—
B.A. 2A—Typewriting I	2	—	2
B.A. 2B—Typewriting II	2	2	2
B.A. 2C—Typewriting III	—	2	—
B.A. 4—Word Study ¹	(2)	(2)	(2)
B.A. 5A-5B—Business Machines	2	2	2
B.A. 10—Secretarial Accounting	—	3	—
B.A. 21—Business Mathematics	3	3	3
B.A. 41—Business English	3	3	3
* B.A. 42—Penmanship	1	—	—
Engl. 1A—First-year Reading and Composition	3	3	3
H.&H. 1—Personal Hygiene	—	—	2
P.E. Activities (Including P.E. 5 or 15)	1	1	1
Speech 1—Fundamentals of Speech	3	—	3
Electives to total	30	30	30
Sophomore Year			
B.A. 1C—Shorthand III	3	—	—
B.A. 2C—Typewriting III	2	—	2
B.A. 111—Office Management	—	—	2
B.A. 14A—Principles of Accounting	3	—	3
B.A. 14B—Principles of Accounting	—	—	3
B.A. 18—Business Law	3	—	—
B.A. 50—Salesmanship	3	—	3
B.A. 101—Business Correspondence	3	—	—
B.A. 112—Secretarial Training	3	—	—
B.A. 13—Office Practice	—	—	3
Econ. 1A—Principles of Economics	3	—	3
Geog. 5—Economic Geography	—	—	3
P.E. Activities	1	—	1
Psych. 1—General Psychology	3	—	3
Electives to total at least	30	—	30

¹ Required of students who fail to pass the entrance test in spelling.

* Requirement may be fulfilled by examination.

REQUIREMENTS FOR
Junior High School Majors

<i>Economics</i>		
Lower Division	Economics 1A-1B -----	6 units
	History 4A-4B or	
	Political Science 1A-1B -----	6 units
Upper Division	U.D. Economics -----	12 units
Total units required -----		24 units
<i>History</i>		
Lower Division	Economics 1A-1B or	
	Political Science 1A-1B -----	6 units
	History 4A-4B -----	6 units
Upper Division	U.D. History -----	12 units
Total units required -----		24 units
<i>Social Sciences</i>		
Lower Division	Economics 1A-1B or	
	History 4A-4B -----	6 units
	Political Science 1A-1B or	
	Sociology 1A-1B -----	6 units
Upper Division	U.D. Social Science -----	12 units
Total units required -----		24 units

Additional requirements for the Junior High School Credential are given on pages 50-51.

Minor for Candidates for the General Secondary Credential

Social Studies

A minimum of 21 units in courses approved by divisional chairman. At least six units must be in the upper division.

Minors in the Social Science Fields

	<i>Economics</i>	<i>History</i>	<i>Political Science</i>	<i>Psychology</i>	<i>Sociology</i>
Lower Division -----	1A-1B	4A-4B	1A-1B	1-2	1A-1B
Upper Division -----	6 units	6 units	6 units	6 units	6 units
Total units required ---	12 units	12 units	12 units	12 units	12 units
	<i>Business Administration</i>	<i>Accounting</i>	<i>Secretarial Training</i>		
Lower Division -----	14A-14B	14A-14B	1A-1B 2A-2B		
Upper Division -----	6 units	160A and 3 units from: 160B, 161, 169	112 and 3 units from 110, 111, 113		
Total units required ---	12 units	12 units	16 units		

DESCRIPTION OF COURSES**HISTORY****Lower Division****4A-4B. History of Western Civilization (year) 3-3 units**

A rapid survey of the political, economic, social, religious, and cultural development of western civilization from ancient times to the present.

First semester: From ancient times to the seventeenth century.

Second semester: From seventeenth century to the present.

History 4A is not necessarily prerequisite to 4B, although this sequence is recommended.

Required of all History and Social Science majors and minors.

Three one-hour periods per week.

8A-8B. History of the Americas (year) 3-3 units

The development of the Western Hemisphere from discovery to the present. The first semester emphasizes exploration and settlement, colonial growth, imperial rivalries, and includes the achievement of independence. The second semester emphasizes the growth and development of the American nations and people in the last century and a quarter.

Three one-hour periods per week.

70. History of the United States (fall) 2 units

A rapid survey from colonial times to the present. Development of the major political and social institutions of the American people; economic development; sectionalism; expansion. Emphasizes main currents.

This course meets the requirements in United States history established by the Legislature of California.

Two one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in History: History 4A-4B, and History 70 or 8A-8B or consent of the instructor.

100. Contemporary Events 2 units

An evaluation of present day problems and a critical appraisal of recent thinking about American Foreign Policy.

Two one-hour periods per week.

121A-121B. The Middle Ages (year) 3-3 units

121A is a survey of the early Middle Ages. It covers the main events of European history from the fall of the Roman Empire to about 1150 A. D.

121B is a survey of the later Middle Ages. It covers the main events of European history from 1150 to 1450 with emphasis upon social, cultural, religious, and economic foundations of Western Europe.

Three one-hour periods per week.

124. World Organization for Peace 3 units

A general survey of the historical background of the institutions and agencies of international government with major stress on international organization for peace.

Three one-hour periods per week.

142. Europe in the Sixteenth, Seventeenth, and Eighteenth Centuries 3 units

The political, economic, social, and intellectual history of Europe from the Reformation to the fall of Napoleon.

Three one-hour periods per week.

143. Europe in the Nineteenth Century 3 units

European society, politics, and international relations from the Congress of Vienna through the unification of Italy and Germany.

Three one-hour periods per week.

144. **Europe Since 1870** 3 units
The history of Europe with special stress on the causes of the world wars and wars themselves.
Three one-hour periods per week.
148. **Recent World History** 3 units
Political, economic, and social developments leading to World Wars I and II. Includes present-day international relations.
Three one-hour periods per week.
149. **History of Russia** 3 units
Internal history of Russia with emphasis on Soviet Russia; Russia and the Soviet Union, the world politics, and world economics.
- 151A-151B. **Economic, Political and Social History of England** 3-3 units
A study of the principal currents in political and social progress of England in modern times. Special emphasis is placed on economic trends and developments.
Three one-hour periods per week.
153. **History of England** 2 units
A study of the English people through a survey of their political, economic, social, and cultural history.
Two one-hour periods per week.
- 161A-161B. **Hispanic America** 3-3 units
The first semester covers the history of Latin America through the Wars of Independence. The second semester brings the history of these countries up to the present time. It includes a study of the relations among the various South American countries, and with the United States, Europe, and Asia. See also Political Science 126.
Three one-hour periods per week.
167. **The Foreign Relations of the United States** 3 units
The foreign policy of the United States in the Nineteenth and Twentieth Centuries; the rise of the United States to a position of world power and the problems and changes growing out of this new position.
Three one-hour periods per week.
168. **United States as a World Power** 3 units
The emergence of the United States as a major power during the Twentieth Century and the international repercussions of America's developing influence. See also Political Science 128.
Three one-hour periods per week.
171. **The United States: Colonial Period** 3 units
Political, social, and constitutional history of the United States through the colonial period to 1789.
Three one-hour periods per week.
172. **The United States: The Nineteenth Century** 3 units
Social, cultural, and political history of the United States from Washington's administration to 1898.
Three one-hour periods per week.
174. **The United States: The Twentieth Century** 3 units
Presents a general survey of political, social, and cultural aspects of United States history from 1898 to the present.
Three one-hour periods per week.
179. **American Constitutional History** 3 units
A study of the Federal Constitution from the historical standpoint, with emphasis upon the constitutional convention and the constitutional controversies of the nineteenth and twentieth centuries.
Three one-hour periods per week.

181. History of the Westward Movement**3 units**

A study of the advances of the American frontier through its various stages from the Atlantic to the Pacific.

Three one-hour periods per week.

188. History of California**2 or 3 units**

The economic, social, intellectual, and political development of California from the earliest time to the present. Two units for the regular class with the possibility of an extra unit by conference.

Two one-hour periods per week.

194. History of Education in the United States**2 units**

The origin and rise of significant educational movements in the United States, with emphasis upon the integration of the American school system with our social institutions, the emergence and conflict of social classes, the changing balance between rural and urban life, immigration, movements of social reform, and governmental policy on social questions, and social impact of industrialization, urbanization, and war.

Two one-hour periods per week.

197. Aids to Historical Research**1 unit**

An introduction to historical method, including a study of the auxiliary sciences.

198. History and Historians**1 unit**

A study of historiography, including intellectual processes by which history is written, the results of these processes, and the sources and development of history. Attention is also given to representative historians.

199A-199B. Special Studies in History (year)**2-2 units**

Individual investigation of selected topics. 199A is required of all history majors. To be taken in the senior year in a field for which specific preparation has been made in the junior year.

Graduate Division

Prerequisites: Graduate standing, and the completion of History 197 or 198 and 199A or 199B.

254A-254B. Seminar in Modern European History**3-3 units**

Studies in specialized periods of European history with emphasis centering around the early and late Middle Ages.

281A-281B. Seminar in American History**3-3 units**

Studies in specialized periods of American history with emphasis centering around those subjects and periods for which the most research material is available; the colonial history of the United States; the Civil War period, and the Northwest.

288A-288B. Seminar in California History**3-3 units**

Studies in California history, with emphasis upon the development of local institutions and industries.

290. Master's Degree Thesis**3 units**

See page 35.

ECONOMICS**Lower Division****1A-1B. Principles of Economics (year) 3-3 units**

First semester: Economic organization; the economic laws governing value, price, and the distribution of income; industry relations; the social security system.

Second semester: Money and banking; international trade, finance, and commercial policy; government finance; economic reform.

Three one-hour periods per week.

40. Elementary Statistics (spring) 3 units

Theory and uses of statistical methods. Practice in tabular and graphical representation of data. Measures of central tendency, relationships, and dispersion. Coefficients, index numbers, time series, and other forms of statistical calculations.

Students taking this course should consult the instructor concerning the adequacy of their mathematical background.

Three one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in Economics: Economics 1A-1B or consent of the instructor.

100. General Economic Theory 3 units

Modern theories of price determination and evolution of ideas concerning wages, rent, and interest. Study of the principles of value and distribution under competition, monopoly, and monopolistic competition.

Three one-hour periods per week.

103. Business Cycles 3 units

A historical and descriptive study of the business cycle. Statistical analysis of business cycles and business forecasting. A comparison of various theories of the business cycle.

Three one-hour periods per week.

104. National Income and Employment 3 units

The factors that determine output, national income and employment. Survey of recent monetary-fiscal theories relative to the level of employment. The Keynesian influence on contemporary economic theory.

Three one-hour periods per week.

105. Consumer Economics 3 units

A general survey of the economics of consumption in the United States with an analysis of the determination of consumer demands and of the sources of supply.

106. Social-Economic Reform Movements (spring) 3 units

A historical and comparative survey of Socialism, Communism, Cooperation, and Utopianism, and other systems of reform and reconstruction.

See also Sociology 101.

Three one-hour periods per week.

113. Economic and Social History of the United States (spring) 3 units

The development of American economic institutions and the interaction between economic factors and the social and political conditions in the United States.

Three one-hour periods per week.

130. Business Finance 3 units

The instruments and methods of financing the industrial enterprise. Financial practices of firms and their effects upon the economy.

Three one-hour periods per week.

131. Public Finance and Taxation 3 units

Public expenditure, revenue, and borrowing. Fiscal policy and the business cycle. The problem of shifting, incidence, and economic effects of taxes.

Three one-hour periods per week.

- 135. Principles of Money and Banking (fall) 3 units**
The nature and function of money and credit; the structure and functions of the most important financial institution in American economic society.
Three one-hour periods per week.
- 150. Labor Economics (fall) 3 units**
A survey of modern labor conditions, followed by a study of the more specific labor problems related to wages, hours of work, conditions of work, unionism, economic security, and industrial relations.
Three one-hour periods per week.
- 151. Contemporary Labor-Management Relations 3 units**
Postwar wage and nonwage practices. Underlying forces in a maturing labor-management relation. The role of the fact-finding board.
Prerequisite: Econ. 150.
Three one-hour periods per week.
- 155. Labor and Social Legislation 3 units**
Industrial codes concerning safety and sanitation, and governing the employment of women and children in industry. Workmen's compensation; the Fair Labor Standards Act; laws and court decisions affecting wages, hours, picketing, union agreements, strikes, etc.
Three one-hour periods per week.
- 158. Government and Business 3 units**
Includes a study of governmental planning, governmental activity in the preservation and regulation of competition. Special emphasis is placed upon industrial codes and safety and sanitation legislation. Workmen's compensation, Fair Labor Standards Act, laws and court decisions, wages, hours, picketing, strikes, etc.
Three one-hour periods per week.
- 185. Social Insurance (spring) 3 units**
The causes of insecurity in the industrial system and of society's attempts to cope with the problem. Regularization of employment and other phases of economic planning; unemployment and old age insurance; security against industrial accidents and occupational diseases; health insurance; and public relief. See also Sociology 110A.
Three one-hour periods per week.
- 188. World Population and Resources (spring) 3 units**
Distribution of the world's population and resources and their relationship in terms of economic welfare; areas of population pressure; measures for economic cooperation in the interests of world peace.
Three one-hour periods per week.
- 190. Principles of International Trade and Finance (spring) 3 units**
The theory of international trade; balance of trade and payments; foreign exchanges and foreign trade financing; government control and direction of international trade.
Three one-hour periods per week.
- 191. International Economic Policy 3 units**
Tariff and other mechanisms for the control of international trade; the reciprocal trade agreement program; and problems which are of special importance for world economic reconstruction, i.e., multilateral trade conventions, monetary stabilization, international investment, transport and communication agreements, international cartels and commodity agreements.
Three one-hour periods per week.

Graduate Division

Prerequisites: Graduate standing and adequate preparation in Economics.

201A-201B. Development of Economic Thought 3-3 units

The development of economic thought from classical times to the present. Emphasis is given to the study of the physiocrats, Adam Smith, Malthusian school, classicism and utilitarianism, "National School of Political Economy," the historical approach to economics, the rise of socialism and economic radicalism, and recent economic doctrines.

290. Master's Degree Thesis 3 units
See page 35.**299A-299B. Special Problems in Economics 3-3 units**
Assignment of special economic problems for intensive study.**BUSINESS ADMINISTRATION****Lower Division****1A. Shorthand I (fall, spring) 3 units**
Introduction to Gregg shorthand simplified through the functional method approach.

Five one-hour periods per week.

1B. Shorthand II (fall, spring) 3 units
Further development of speed in writing. A minimum speed of 80 words per minute is the objective of the course.
Five one-hour periods per week.
Prerequisite: B.A. 1A or equivalent.**1C. Shorthand III (fall, spring) 3 units**
Dictation and transcription. Speed writing beyond the 100 word per minute level.
Prerequisite: B.A. 1B or equivalent.
Five one-hour periods per week.**2A. Typewriting I (fall, spring) 1-2 units**
A skill subject designed to teach the fundamentals of touch typing in the shortest possible time. The last half of course may be taken for one unit as a refresher course.
Six one-hour periods per week.**2B. Typewriting II (fall, spring) 2 units**
Advanced technique and practice. Stress will be placed upon the prevention of bad habits in typewriting, remedial typewriting, letter writing, carbon copies, addressing envelopes, continuity and rhythm.
Prerequisite: Business Administration 2A or its equivalent.
Six one-hour periods per week.**2C. Typewriting III (fall, spring) 2 units**
Expert typing drills, tabulating, billing, problems involving the working out of real office jobs under office conditions.
Prerequisite: Business Administration 2B or its equivalent.
Six one-hour periods per week.**4. Word Study (fall) 2 units**
A study of words used in business and industry with special drill on those commonly misspelled.
Two one-hour periods per week.**5A-5B. Business Machines (fall) 1-1 units**
An intensive study of modern office machinery, including adding and calculating machines. The purpose of this course is to train commercial teachers and to meet the demand of present-day business life for skilled operators.
Three one-hour periods per week.

10. Secretarial Accounting (spring)**3 units**

Designed primarily for secretaries and those preparing for general clerical work. Complete bookkeeping cycle is covered rapidly but emphasis is placed on bookkeeping for small business concerns, and clerical procedures such as pay roll preparation, customer postings, and bank reconciliations.

Two one-hour lecture periods and one three-hour laboratory period.

13. Office Practice**3 units**

See B.A. 113.

14A-14B. Principles of Accounting (year)**3-3 units**

First semester: The mechanics of bookkeeping, balance sheet approach, including the general journal, specialized journals, posting, trial balances, columnar working sheets, closing entries, balance sheets, and profit and loss statements.

Prerequisite: Sophomore standing.

Second semester: Characteristics of the partnership and corporate form of business organization, cost accounting, department and branch accounting, analysis and interpretation of financial statements.

Prerequisites: B.A. 14A.

Two one-hour lecture periods and one three-hour laboratory period per week.

15. Mathematics of Finance (spring)**2 units**

Presentation of mathematical formulas used in problems of compound interest and discounts. Application of such formulas to business problems, including valuation of certain assets and liabilities, depreciation, life insurance, etc.

Prerequisite: B.A. 21 or equivalent examination.

Two one-hour periods per week.

18. Business Law (fall)**3 units**

Historical development of law and its functions with respect to business. Special emphasis on courts and court procedure, law of contracts, and the law of negotiable instruments. Textbook, cases, and lectures.

Three one-hour periods per week.

Prerequisite: At least sophomore standing.

21. Business Mathematics (fall)**3 units**

Designed to give students a workable conception of the fundamental principles of the mathematics of business. Includes fractions, percentages, simple and successive discounts, markups, etc.

(This requirement may be met by passing the departmental examination.)

Two one-hour lectures and one three-hour laboratory period per week.

41. Business English (spring)**3 units**

Fundamentals of grammar and sentence structure; punctuation; personal letters; the letter in business.

Prerequisite: Satisfactory score on Subject A test.

Three one-hour periods per week.

42. Penmanship**1 unit**

(May be fulfilled by examination.)

50. Salesmanship (fall)**3 units**

The personality and training of the salesman, sales analysis, interviews, steps in selling, the approach, arousing interest, producing conviction, creating desire, buying motives, closing the sale. Textbook, educational trips, and lectures.

Three one-hour periods per week.

Upper Division**101. Business Correspondence (fall)****3 units**

The letter in business; telegrams, memorandums, reports, advertising; the art of proofreading.

Prerequisite: English 1A.

Three one-hour periods per week.

- 105. Dictation and Transcription (fall) 2 units**
Essential points of English, style, and interpretation of 75,000 words of practice material all in shorthand. This course includes extensive dictation. Students are taught to check the spelling or division of every doubtful word and to refuse to transcribe a sentence if it does not "make sense."
Prerequisite: Business Administration 1C or its equivalent.
Three two-hour periods per week.
- 110A-110B. Secretarial Practice (year) 3-3 units**
Designed to increase the stenographic skill by providing opportunity for the use of those fundamentals acquired in the basic courses. Additional training given in business customs and procedures. The course is particularly adapted to the needs of advanced secretarial students and prospective business teachers.
Three one-hour periods per week.
- 111. Office Management (fall) 2 units**
Lectures and discussions concerning the problem of office management, i. e., flow of work, physical facilities, working conditions, nature and sources of supplies and equipment.
Two one-hour periods per week.
- 112. Secretarial Training (spring) 3 units**
Practical secretarial problems involving personality studies and business etiquette; the telephone, transportation, interviewing callers, filing, keeping business calendars; and sources of material on business subjects.
Prerequisite: Business Administration 2B and 101.
Nine one-hour periods per week.
- 113. Office Practice (spring) 3 units**
Supervised on-the-job training in business offices in the area.
One conference period and eight hours in a business office per week.
- 118. Business Law II (spring) 3 units**
A second course in business law with emphasis on business organization, including partnerships, corporations, and agency; personal and real property, including sales, bailments, mortgages, landlord and tenant, lien laws; security relations, including conditional sales, suretyships, insurance; trade regulations.
Prerequisite: B.A. 18.
Three one-hour periods per week.
- 120. Business Organization (fall) 3 units**
Introduction to business management; the economic framework of modern business; management of physical and human resources; management of production and sales; administrative controls.
Three one-hour periods per week.
- 125. Retail Advertising (fall) 3 units**
The planning and execution of advertising for the retail business: research, budgets, media, copy, layout, and management of the advertising department.
Prerequisite: B.A. 134.
Three one-hour periods per week.
- 126. Retail Store Management 3 units**
A study of retailing methods from the standpoint of the owner and manager. Includes the case study of such subjects as purchasing, planning, stocks, inventory methods, markup, accounting for stock control, pricing, style merchandising, and general management problems.
Three one-hour periods per week.
- 130. Business Finance (spring) See Econ. 130. 3 units**

133. Personal Finances and Investments (spring) 3 units

A study of financial institutions and methods of achieving financial security, including borrowing and lending, controlling budgets, investing in securities, buying insurance and annuities, arranging for trust funds, financing home ownership, figuring income tax.

Three one-hour periods per week.

134. Marketing (spring) 3 units

The organization and management of markets. A survey of the activities involved in transferring manufactured goods and agricultural products from producer to consumer.

Three one-hour periods per week.

152. Principles of Business Education 3 units

The principles of business education as they relate to business activities.

Three one-hour periods per week.

153. Personnel Administration 3 units

Personnel policies and procedures. Wage policy and administration. Collective bargaining procedures. Social aspects of industry and its effect upon personnel policy. The government's role in personnel administration.

Three one-hour periods per week.

160A-160B. Advanced Accounting (year) 3-3 units

Intensive study of the advanced theory of accounts and its application. Textbook, selected problems, and lectures on the various phases of accounting theory and practice.

Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B; 160A prerequisite to 160B.

161. Cost Accounting (fall) 3 units

Intensive study of methods used in accounting for production costs. Includes job order system, process system, and standard costs. Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B. B.A. 160A recommended.

162. Auditing (spring) 3 units

Presentation of modern auditing principles and procedures followed in an examination of financial statements. Textbook, selected cases and problems and lectures.

Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B, 160A. 160B is recommended.

169. Federal Income Tax Procedure (fall) 3 units

A study of the federal laws relating to personal, estate, and corporation income taxes, from the accounting point of view. Lectures and case problems.

Prerequisite: B. A. 14A-14B.

Three one-hour periods per week.

199. Special Problems 2 units

Research work open to advanced students with the consent of the instructor.

Graduate Division**252. Philosophy of Business Education 3 units**

The development of a basic philosophy of Business Education.

299. Special Problems in Business Administration 1-3 units**GEOGRAPHY****Lower Division****5. Economic Geography (spring) 3 units**

A geographic interpretation of man's economic activities. Includes a study of the natural environment and a regional survey of the world's agricultural, industrial, and mineral distribution.

Three one-hour periods per week.

Upper Division

- 123. International Geopolitics** **2 units**
 See Political Science 123.
 Two one-hour periods per week.
- 181. Current Problems in Political Geography** **2 units**
 See Political Science 127.
 Two one-hour periods per week.

PHILOSOPHY**Lower Division**

- 6A-6B. Introduction to Philosophy (year)** **3-3 units**
 First semester: An elementary survey of the fundamental concepts and issues in ethics, logic, metaphysics, religion, ontology, and the theory of knowledge.
 Second semester: A special consideration of the basic problems of philosophy, including historical references to solutions presented in the past.
 Three one-hour periods per week.

Upper Division

- 106. Reform Movements** **3 units**
 See Economics 106.
- 113. Contemporary Thought** **2 units**
 A survey and critical analysis of the more prominent philosophies of the present day, with particular emphasis upon political thought. Students who have credit for Political Science 113 may not receive additional credit for this course.

POLITICAL SCIENCE**Lower Division**

- 1A-1B. Introduction to Government (year)** **3-3 units**
 A study of the development, ideology, techniques, organizations and functions of various governments. Comparison and contrast with the government of the United States is stressed.
 Three one-hour periods per week.
- 51. American Constitutional Government (spring)** **2 units**
 A study of the structure, operation, and development of the American constitutional system.
 This course meets the requirements in United States Constitution established by the Legislature of California.
 Two one-hour periods per week.

Upper Division

- 113. Contemporary Political Thought** **2 units**
 A survey and critical analysis of the major political ideas of the present day, with particular emphasis on American views.
 Two one-hour periods per week.
- 115. American Political Ideas** **2 units**
 A critical analysis of the major political ideas in American history. Among the problems discussed in a search for a sound philosophy for democracy will be the ideas of majority rule, public opinion, propaganda, society's needs, minority rights, and force and persuasion.
 Two one-hour periods per week.
- 123. International Politics** **2 units**
 Problems of nationalism, imperialism, and world federation, particularly in connection with current problems of maintaining peace; the course includes a study of geopolitical problems.
 Two one-hour periods per week.

- 124. International Organizations** **3 units**
See History 124.
- 126. Latin-American International Relations** **3 units**
See History 161B.
- 127. International Relations** **3 units**
A study of the instruments, techniques, institutions, and problems of international government with stress upon current issues of international diplomacy, including the United Nations.
Three one-hour periods per week.
- 128. Recent Foreign Policy of the United States** **3 units**
See History 168.
- 138. International Relations in the Far East** **2 units**
Historical development and present difficulties in the relations between the various world powers in the Pacific area; the changing importance of the Far East and its resultant problems.
- 152. American Political Parties and Practical Politics** **2 units**
The role of political parties in American government; an analysis of the history, organization, and activities of parties; pressure groups; practical politics studied from the point of view of the nominating system; the conduct of elections; campaign techniques, voting; and the spoils system.
Two one-hour periods per week.
- 153. The Government of Great Britain** **2 units**
A study of the legal, administrative, and parliamentary development of England from Anglo-Saxon times to the present.
Two one-hour periods per week.
- 158. Government and Business** **3 units**
See Economics 158.
- 198. Directed Reading in Political Science** **2 units**
This course will include selected readings in political theory, international relations, administrative management, politics, and legislation, and Latin American political institutions.

PSYCHOLOGY

Lower Division

- 1. General Psychology (fall, spring)** **3 units**
An introduction to the study of human behavior, emphasizing the significance of maturation, learning, motivation, and individual differences as they evolve in personality.
Usually restricted to sophomores.
Three one-hour periods per week.
- * 2. Applied Psychology (spring)** **3 units**
Survey of the areas in which the general principles of psychology are applied, such as medicine, law, advertising, salesmanship, religion, business and personal relations.
Prerequisite: Psychology 1.
Three one-hour periods per week.
- 33. Psychology of Adjustment (spring)** **3 units**
Mental hygiene and personality development particularly appropriate for college students. Foundations of behavior, adjustments to frustration, deviations from normal behavior, measurement of personality, and problems of personal adjustment will be investigated. Attempts will be made through group therapy to help students ameliorate some of their own personality difficulties.
Three one-hour periods per week.

* Not given 1950-51.

40. Statistics**3 units**

See Economics 40.

80. Reading-Study Service**No credit**

A basic course in the fundamentals of reading. Designed to permit students to increase both their rate and comprehension ability in reading. Students desiring to improve their reading ability or students planning to teach reading in the junior or senior high schools may benefit from this developmental reading program.

Four one-hour periods per week.

Upper Division**105. Social Psychology****3 units**

The relationship between social organizations and the normative personality attributes of the members of society. The problems of society growing out of ethnic, racial, class, sex, and age differences are discussed.

Three one-hour periods per week.

113. Psychological and Social Foundations of Education**5 units**

See Education 113.

153. Psychology of Personnel Management**3 units**

See Business Administration 153.

199. Special Problems in Psychology**2-3 units**

Prerequisite: At least six units upper division psychology.

Graduate Division

Prerequisite: Graduate standing and adequate preparation in Psychology.

212. Psychology of Adolescence**2 units**

A study of the physical, mental, social and emotional adjustment of the adolescent; ways of diagnosing personality development in relation to his educational and social needs; case method technique for investigating adolescent behavior.

Two one-hour periods per week.

SOCIOLOGY**Lower Division****1A-1B. Introduction to Sociology (year)****3-3 units**

1A—An introduction to the study of the social life of man and its relations to the factors of culture, natural environment, heredity, and the group.

1B—The study of social disorganization and resulting social problems.

Three one-hour periods per week.

8. Game Law Enforcement (spring)**2 units**

To acquaint the student with the basic concepts of law enforcement, with special emphasis on fish and game law enforcement work.

This course is *not* applicable toward the major or the minor in Sociology nor toward the basic requirement in Social Sciences.

One two-hour lecture and laboratory period per week.

60. The Family**3 units**

See Sociology 160.

Upper Division

Prerequisite to upper division courses in sociology: Sociology 1A-1B or consent of instructor.

101. Social-Economic Reform Movements (fall)**3 units**

See Economics 106.

- 102. Methods in Social Work** (spring) **3 units**
 An introduction to the methods of case work, group work and community organization, with special emphasis on case-work techniques and skills. Includes approximately 50 hours of field work, under supervision, in community agencies.
 Prerequisites: Sociology 110A-110B (110B may be taken concurrently) and the consent of the instructor.
 Three one-hour periods per week.
- 103. Crime and Delinquency** (spring) **2 units**
 A survey of the problem of adult crime and juvenile delinquency, including associated factors and processes in the administration of criminal justice, and the juvenile court.
 Two one-hour periods per week.
- 104. Social Insurance** (spring) **3 units**
 See Economics 185.
- 105. Psychiatric Information for Social Workers** (fall) **2 units**
 An introduction to the schools of psychiatric thought. Development of the mental hygiene movement. Community services for the prevention and treatment of mental illness.
 Two one-hour periods per week.
- 106. Community Organization** (spring) **2 units**
 The concept of the community, the sociological background of community organization. Methods in studying the community.
 Two one-hour periods per week.
- 108. Problems and Practices of Law Enforcement** (spring) **2 units**
 The laws and practices governing seizure, identification, and presentation of evidence. Includes a study of both federal and state game laws. Provides opportunity for practical experience and field work.
 This course is *not* applicable toward the major or the minor in Sociology nor toward the basic requirement in Social Science.
 One two-hour period per week.
- 110A-110B. The Social Services** (year) **3-3 units**
 110A—Historical development of the social services, including relationships between private and public services.
 110B—Modern social services—their organization and programs—with special emphasis on the public social services.
 Three one-hour periods per week.
- 144. Rural Social Problems** **3 units**
 Sociological study of the rural community and an analysis of the social problems of the present-day rural community.
 Three one-hour periods per week.
- 160. The Family** (spring) **3 units**
 Emphasis is on specific aspects of modern family living including preparation for marriage, interpersonal relationships, and particular fields of knowledge important to family life. Background is provided by initial study of the cultural forms of family life and the historical development of the American family.
 Three one-hour periods per week.

GROUP MAJOR

The Group Major has been developed to serve the needs of those students who wish to secure an A.B. Degree which is broadly cultural in character. It provides a "General Education" background for those who wish to pursue a type of professional training which demands a broad rather than a specialized undergraduate program. Many combinations are possible, as the listings below indicate.

The lower division program for a Group Major must include the following :

English 1A-1B -----	6 units
Mathematics (Elem. Algebra and Plane Geometry, if not taken in high school)	
Natural Sciences -----	12 units
(See page 37.)	
Physical Education (including 5 or 15) -----	2 units
Psychology -----	3 units
Social Science -----	12 units
(Including fulfillment of requirement in United States history and constitution—see page 38.)	
Restricted Electives -----	6 units

(Chosen from art, music, foreign language, philosophy, speech,

English 46A-46B, 74A-74B.)

The major consists of 36 units in the upper division, distributed among three subject-fields, chosen from the lists of majors and minors on pages 38 and 39 or from subdivisions of those fields, as listed under the various divisions of the curricula. The student following this major may, in consultation with his adviser, arrange the distribution of the 36 units in whatever proportion seems best, subject, however, to the following requirements:

(a) Not less than six upper division units must be taken in each field, together with the lower division prerequisites; the total of upper division units in any one field should not exceed 18.

(b) Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (i.e., 24 units, at least 12 of which are in the upper division).

(c) Sufficient work must be taken in another field to meet the minimum requirements of the State for a minor (i.e., 12 units, at least six of which are in the upper division).

SUGGESTED GROUP MAJORS

Allied Arts (See page 60)	English	Music
English	History	Speech
Foreign Language	Economics	English
Speech		
English	Natural Sciences	Natural Sciences
Journalism	Physical Education	Business Administration
Social Sciences	Social Service	Mathematics
Education	Radio	Social Sciences
Social Service	Business Administration	Foreign Languages
Home Economics	Journalism	Speech-Radio
Drama	Recreation	Radio
Education	Conservation and	Education
English	Wildlife Management	Social Service
	Arts and Crafts or	
	Education	

HUMBOLDT STATE COLLEGE
DIRECTORY OF PERSONNEL

Administered Through the
STATE DEPARTMENT OF EDUCATION

EXECUTIVE OFFICERS

ROY E. SIMPSON-----Superintendent of Public Instruction and Director of Education
AUBREY A. DOUGLASS-----Associate Superintendent of Public Instruction
and Chief, Division of State Colleges and Teacher Education

STATE BOARD OF EDUCATION

WILLIAM L. BLAIR, *President*-----Pasadena
RAYMOND J. ARATA-----San Francisco
BYRON H. ATKINSON-----Glendale
C. J. HAGGERTY-----San Francisco
MRS. E. T. HALE-----San Diego
GILBERT H. JERTBERG-----Fresno
JOSEPH P. LOEB-----Los Angeles
MRS. VIVIAN N. PARKS-----Richmond
FRED W. SMITH-----Ventura
MRS. E. K. STRONG-----Stanford University

COLLEGE ADMINISTRATIVE OFFICERS AND ASSISTANTS

	President
Homer P. Balabanis	Vice President and Dean of Arts and Sciences
Ivan C. Milhous	Dean of Professional Education
Leonard Christensen	Dean of Students
Kate Buchanan	Dean of Women
Burton Henry	Dean of Men
Harry E. Griffith *	
Director of Elementary Education and Principal of the College Elementary School	
Kaspar I. Ingebritsen	Acting Director of
Elementary Education and Principal of College Elementary School	
Albert D. Graves	Director of Secondary Education
Myrtle M. McKittrick	Registrar
Jessie T. Woodcock	Comptroller
Helen A. Everett	Librarian
Floyd Erickson, Wallace C. Look *	Senior Librarians
Dean Galloway	Junior Librarian
Herbert Moore, M.D.	College Physician
Beverly Griffith *	College Nurse
Noah A. Stromberg, Robert Bryan, Leland Domeyer	College Dentists
Evelyn Plunkett	Recorder
Eugene A. Flocchini	Assistant to the Comptroller
A. E. Zetterberg	Housing Manager
Frances Tolle	Secretary to the President
Ava Hasty	Secretary to the Dean of Arts and Sciences
	Secretary to the Dean of Professional Education
Helen Walker	Secretary to the Principal of the College Elementary School
Delta Hogue	Secretary to the Personnel Deans
Margaret Brookins	Comptroller of Student Accounts
Herbert Doss	Property Clerk
June Offenbacher	Switchboard Operator
Helen Flaherty, Beulah Harper, Louise Hickman, Nona Hogg, Charlotte Johnson, Jess Lewis, Doris Peters, Lee Wildridge	Clerical Assistants
Alexander McMillan	Supervisor of Building and Grounds

DIVISIONAL CHAIRMEN, 1950-1951

Division of Fine and Applied Arts	Don W. Karshner
Division of Health and Physical Education	Joseph Forbes
Division of Language and Literature	Maurice Hicklin
Division of Natural Sciences	Harry D. MacGinitie
Division of Social Sciences	Hyman Palais

HUMBOLDT STATE COLLEGE IMPROVEMENT ASSOCIATION

An incorporated body to obtain necessary property for the State and to serve in an advisory capacity for the College

J. J. Krohn, President

Charles R. Barnum

Vernon L. Hunt

Chester Connick

Gordon Manary

Robert W. Matthews

* Leave of absence, 1950-51.

FACULTY COMMITTEES—1950-1951

Administrative Council

Dr. Balabanis
Miss Buchanan
Dr. Christensen
Dr. Milhous
Mrs. McKittrick

Academic Council

(Curriculum Committee)

* Dr. Balabanis
Dr. Milhous
Mrs. McKittrick
Divisional Chairmen

Admissions

Mrs. McKittrick
Dr. Balabanis
Dr. Milhous

Assembly

* Mr. Van Duzer
Mr. Barlow
President Student Body

Honor Awards

Miss Johnson
Mrs. McKittrick
Dr. Balabanis
Dr. Milhous

Housing

* Dr. Christensen
Miss Buchanan
Dr. Henry
Mrs. Woodcock
Dr. Smith

Humboldt Foundation

Dr. Balabanis
Dr. Milhous
Miss Buchanan
Dr. Christensen
Mrs. Woodcock

Library

* Mrs. Everett
Dr. Balabanis
Dr. Milhous
Divisional Chairmen

Recreation and Social Life

* Mrs. Merklin
Mrs. Barlow
Mrs. Norton
Mr. Roscoe
Mr. Schuler

Scholarship

* Miss Platt
Miss Johnson
Mr. Arnold
Dr. Henry
Mrs. McKittrick

(The President is *ex officio* a member of all committees)

* Chairmen.

FACULTY

- * **▲LWARD, HERBERT V., JR., M.A.**-----Assistant Professor of English and Journalism
 A.B. English, San Francisco State College; M.A., School of Journalism,
 University of Oregon; additional graduate study, Stanford University.
- ARNOLD, HOMER L., M.A.**-----Professor of Mathematics and Philosophy
 B.S., Indiana State Teachers College (Eastern Division); A.B., University
 of Indiana; M.A., University of Chicago; additional graduate study, University
 of Chicago, Stanford University, University of Michigan.
- BALABANIS, HOMER P., Ph.D.**-----Vice President, Dean of the School of Arts
 and Sciences and Professor of Economics
 Ph.B., M.A., University of Chicago; Ph.D., Stanford University
- BARLOW, KATHRYN C., M.A.**-----Assistant Professor of Spanish
 A.B., M.A., Oberlin College; Certificate of Graduation, University of Bor-
 deaux, France; additional graduate study, University of Wisconsin, University
 of Mexico, University of New Mexico.
- BARLOW, LELAND, M.A.**-----Assistant Professor of Music
 Mus.B., Oberlin Conservatory; M.A., State University of Iowa; additional
 graduate study, University of Southern California.
- BUCHANAN, KATE, M.A.**-----Assistant Professor of English
 A.B., University of Oregon; M.A., Washington State College; additional graduate
 study, Columbia University.
- BULLEN, NEWELL REESE, M.A.**-----Assistant Professor of Art
 A.B., Utah State Agricultural College; M.A., Stanford University; Certificate
 of Completion, University of Paris, France; additional graduate study, Academy
 of Advertising Art, and California College of Arts and Crafts.
- CHRISTENSEN, LEONARD, Ed.D.**-----Assistant Professor of Education
 and Dean of Students
 A.B., San Francisco State College; M.A., University of California; Ed.D.,
 Stanford University.
- CORNELIUS, SARAH R., M.A.**-----Assistant Professor of Education
 Ed.B., University of California at Los Angeles; M.A., Columbia University.
- DE WITT, JOHN W., M.S.**-----Assistant Professor of Biological Science
 B.S., Oregon State College; M.S., Oregon State College; additional graduate
 study, University of California at Los Angeles.
- ERICKSON, FLOYD R., B.L.S.**-----Senior Librarian
 B.E., State Teachers College, Superior, Wisconsin; B.L.S., University of
 Minnesota.
- EVERETT, HELEN A., M.A.**-----Librarian
 A.B., University of Oregon; Certificate of Librarianship and M.A., Univer-
 sity of California.
- FORBES, JOSEPH, Ed.D.**-----Associate Professor of Physical Education
 A.B., Occidental College; M.S., University of Oregon; graduate work,
 Occidental College, University of Southern California; Ed.D., University of Oregon.
- FULKERSON, CHARLES, A.B.**-----Assistant Professor of Music
 A.B., San Jose State College; graduate study, University of Southern
 California; piano study under Benning Dexter, John Crown, Alice Ehlers, Abbie
 Whiteside; additional graduate study, Columbia University.
- GALLOWAY, RICHARD DEAN, A.B.**-----Junior Librarian
 A.B., Humboldt State College; graduate study, University of Southern
 California.
- GLOVER, FRED A., Ph.D.**-----Assistant Professor of Biological Sciences
 B.S., Oregon State College; M.S., Pennsylvania State College; Ph.D., Iowa
 State College.
- GRAVES, ALBERT D., Ed.D.**-----Professor of Education
 A.B., M.A., and Ed.D., Stanford University.

* On leave 1950-51.

- GRAVES, THELMA WALTERS, A.B.-----Assistant in Home Economics
A.B., University of California, Santa Barbara; graduate study, Humboldt State College.
- * GRIFFITH, HARRY E., M.A.-----Professor of Education
Ed.B., University of California at Los Angeles; M.A., University of California at Berkeley; additional graduate study, Claremont Colleges, University of Southern California, Stanford University.
- HENRY, BURTON, Ph.D.-----Assistant Professor of Education and Dean of Men
A.B., Harvard University; graduate work at Yale University; M.Ed. and Ph.D., University of Southern California.
- HICKLIN, MAURICE, M.A.-----Professor of English
A.B., University of Missouri; B.J., School of Journalism, University of Missouri; M.A., Stanford University.
- HICKMAN, WILLIAM H., M.A.-----Assistant Professor of Economics
B.S., Kansas State College; M.A., Stanford University; additional graduate study, Stanford University.
- HIMSTREET, WILLIAM C., A.B.-----Instructor in Business Administration
A.B., San Jose State College; graduate study, San Jose State College, Stanford University.
- INGEBRITSON, KASPAR I., M.A.-----Assistant Professor of Education
B.Ed., State Teachers College, Bemidji, Minnesota; graduate study, University of Minnesota; M.A., Claremont Graduate School; additional graduate study, Stanford University.
- JACKSON, WILLIAM F., M.B.A.-----Assistant Professor of Business Administration
B.S., M.B.A., University of California.
- JENKINS, R. HORACE, M.S.-----Professor of Industrial Education
B.S., M.S., Oregon State College; graduate, Central State Teachers College, Oklahoma, four-year classical course and three-year art and shop course; additional graduate study, Oswego State Normal School, University of California, University of Chicago, Columbia University, Stanford University.
- JOHNSON, ADELLA, M.A.-----Associate Professor of Modern Languages
A.B., University of Minnesota; M.A., University of Washington; additional graduate study, University of Washington, Stanford University, Columbia University, University of Minnesota, University of California, Casa Panamericana, Mills College, University of Paris, France.
- KARSHNER, DON W., Ed.D.-----Associate Professor of Speech
A.B., Washington State College; Ed.D., Stanford University.
- LANPHERE, WILLIAM M., Ph.D.-----Professor of Biological Science
B.S., M.S., and Ph.D., University of Washington.
- * LOOK, WALLACE C., B.L.S.-----Senior Librarian
A.B., Humboldt State College; B.L.S., University of California; graduate study, University of California.
- MACGINTIE, HARRY D., Ph.D.-----Professor of Physical Sciences
A.B., Fresno State College; Ph.D., University of California.
- McKITTRICK, MYRTLE M., A.B.-----Registrar
A.B., Willamette University; graduate study, University of Washington.
- MERKLIN, GAYLE C., M.S.-----Assistant in Home Economics
B.S., M.S., Oregon State College.
- MILHOUS, IVAN C., Ph.D.-----Professor of Education and Dean
of the School of Education
A.B., Penn College; M.A., Haverford College; Ph.D., State University of Iowa.
- NORTON, JACK, B.S.-----Instructor in Physical Education
B.S., Northeastern (Oklahoma) State College; graduate work, Humboldt State College.
- PALAIS, HYMAN, Ph.D.-----Professor of History
A.B., M.A., Ph.D., University of California at Los Angeles.
- * PECK, ALBERT D., A.B.-----Assistant in Mathematics
A.B., Chico State College; graduate study, University of Minnesota.

- PEITHMAN, ROSCOE E., M.S.-----Associate Professor of Physical Science
B.Ed., Southern Illinois Normal University; M.S., University of Illinois.
- PLATT, IMOGENE B., M.A.-----Assistant Professor of Business Administration
A.B., M.A., University of Washington; additional graduate study, Stanford University.
- ROBERTS, BRUCE J., M.A.-----Assistant Professor of Biological Sciences and
Director of Audio-Visual Education
A.B., San Francisco State Teachers College; M.S., Stanford University; additional graduate study, University of California, Stanford University; three quarters residence research in marine biology, Hopkins Marine Station, Pacific Grove.
- ROSCOE, CHARLES M., M.S.-----Assistant Professor of Physical Science
B.S., University of Oklahoma; M.S., Stanford University.
- SCHULER, MELVIN ALBERT, JR., M.F.A.-----Assistant Professor of Art
B.A., Ed. and M.F.A., California College of Arts and Crafts; summer of art study in Mexico.
- SHEPHERD, M. ROD, M.A.-----Assistant Professor of Speech
A.B., M.A., University of Southern California.
- SMITH, ARTHUR M., Ph.D.-----Assistant Professor of Chemistry
A.B., San Francisco State College; M.A., Ph.D., Stanford University.
- SPAID, STANLEY S., Ph.D.-----Assistant Professor of History
B.A., M.A., University of Idaho; additional graduate study, University of Oregon, University of Michigan, University of Wisconsin; Ph.D., University of Oregon.
- STAFFLER, TED T., M.B.A.-----Assistant Professor of Physical Education
A.B., University of California; M.B.A., Stanford University.
- THOMPSON, SHIRLEY DUNCAN, M.A.-----Assistant Professor of Social Sciences
A.B., University of California; M.A., University of Chicago, School of Social Service Administration.
- TELONICHER, FRED, A.B.-----Associate Professor of Biological Science
A.B., Fresno State College; graduate study, Stanford University, and Hopkins Marine Station, Pacific Grove.
- VAN DUZER, JOHN, M.A.-----Associate Professor of Speech and Drama
A.B., Humboldt State College; M.A., University of Southern California; study at Eastman School of Music, Rochester, New York; additional graduate study, Stanford University.
- WHETSTONE, LLOYD V., M.A.-----Assistant Professor of Physical Education
and Director of Athletics
A.B., Colorado College; M.A., Stanford University.
- WHITE, REGINALD LOUIS, Ed.D.-----Professor of English
B.A., First Class Honors in English, University of London, England; M.A., Northwestern University; Ed.D., Stanford University.
- WOODCOCK, JESSIE TURNER-----Comptroller
Graduate, Humboldt State Teachers College.
- WOMACK, THURSTON, M.A.-----Assistant Professor of English
A.B., Humboldt State College; M.S., Stanford University; additional graduate study, Stanford University.

PART-TIME INSTRUCTORS

- DREYER, CHARLES J., A.B.-----Instructor in Industrial Education
A.B., University of California; California Special Credential in Vocational Arts.
- GURNEE, DUANE-----Assistant in Music
Private study of clarinet and saxophone under Antonio Raimondi, Achille Heynen, Pierre De Leye (Brussels, Belgium, Conservatory of Music), Dr. A. Szen-drei, Mickey Gillette, Ronald Phillips, Franklin Stokes, and Glenn Johnston.
- THOMPSON, ESTHER GRIFFITH-----Lecturer in Violin
Certificate in Theory and Violin (4 years), Yale University School of Music; studied violin under Richard Schliewen, Reginald Bland, Russell Keeney, and Hugo Kortschak; studied one year in Italy with Lena Fagioli; studied string ensemble with Emmeran Stoeber.
- WEEKS, JACK-----Assistant in Modern Orchestration
Undergraduate work at University of Southern California; studied composition with Darius Milhaud at Mills College, and with Alexander Tansman and Darius Milhaud in Paris, France.

COLLEGE ELEMENTARY SCHOOL

- * HARRY E. GRIFFITH, Principal and Director of Elementary Education
- INGEBRITSEN, KASPAR I.---Acting Principal and Director of Elementary Education
- HAGNE, HAZEL, A.B.-----Acting Supervisor
A.B., Humboldt State College; graduate study, University of California and Columbia University.
- * HAYES, SUSAN W., A.B.-----Supervising Teacher
A.B., Humboldt State College; additional study, Oregon State College.
- KELLENBERGER, ELEANOR, A.B.-----Supervising Teacher
A.B., Humboldt State College; graduate study, University of California at Los Angeles.
- McDERMID, CHARLES G., A.B.-----Supervising Teacher
A.B., University of Santa Clara.
- MacPHERSON, HELEN C., A.B.-----Supervising Teacher
A.B., George Peabody College.
- NORTON, EMMA, A.B.-----Supervising Teacher
A.B., Humboldt State College.
- TELONICHER, MARGARET, A.B.-----Supervising Teacher
A.B., Humboldt State College.
- CHOATE, HELEN, B.S.-----Supervising Teacher
B.S., University of California.
- WOODCOCK, NANA, B.S.-----Supervising Teacher
B.S., University of Oregon.

* On leave of absence 1950-51.

INDEX

- A.B. Degree (see Bachelor of Arts degree)
- Academic calendar, 4
- Academic honors (see Scholastic honors)
- Academic regulations, 23
- A cappella choir, 14
- Accounting courses, 142, 144
- Accredited, 21
- Activities, 14, 15
- Administration credentials, 58
- Administrative officers, 151
- Admission to the College, 19
- Adolescence, Psychology of, 147
- Advanced standing (see Admission to the College)
- Advisers, 15
- Agriculture, 40
- Algebra, 37, 125
- Allied Arts, 61
- Alpha Psi Omega, 14
- Alumni Association, 17
- American Government, 38, 145
- Required of A.B. Degree candidates, 38
- Anatomy, 118
- Annette Parton Johnson Scholarship, 29
- Anthropology, 116
- Applied Psychology, 146
- Aptitude Test (see College Aptitude Test)
- Arcata Kiwanis Award, 32
- Arcata Rotary Club Scholarship, 29
- Art, 61
- A.B. Degree in, 61
- Description of courses, 63
- General Secondary Credential in, 61
- Major and minor, 61, 63
- Special Secondary Credential in, 61
- Arts and Sciences, 60
- Associated Business Girls Award, 30
- Associated Students, 14
- Associated Women Students, 14
- Athletics, 14
- Auditors, 28
- Auditing, course in, 144
- Audio-Visual Education, 55
- Awards (see Scholarships and Monetary awards)
- BACHELOR of Arts degrees, 34
- General requirements, 37
- Bachelor of Science Degree, 34
- General requirements, 37
- Bacteriology course, 116
- Band, 80
- Biology courses, 116
- Major, 112
- Minor, 115
- Board of Control of Student Body, 14
- Bookstore, 14
- Botany courses, 117
- Major, 112
- Minor, 115
- Breeding pens, 10
- Buildings, 10, 11
- Business Administration
- A.B. Degree in, 133
- Description of courses, 141
- Major, 133
- Minor, 135
- Business and Professional Women's loan, 33
- Business education curriculum, 133
- CALENDAR
- Academic calendar, 4
- California, history of, 138
- California Congress of Parents and Teachers Scholarship, 32
- Chemistry, 121
- Chi Sigma Epsilon, 14, 32
- Community Relations, 17
- Community Service, 17
- Cost Accounting, 144
- Counseling, 15
- Course numbering, 46
- Craig scholarships, 30
- Credentials, 34, 50-59, 61, 67, 75, 83, 90, 100, 110, 128, 132
- Administration and supervision, 58
- Elementary, curriculum for, 50
- General requirements, 49
- General statement, 48
- Junior high school, curriculum for, 50
- Kindergarten-Primary, curriculum for, 50
- Residence requirement, 35, 37, 49
- Secondary General, 53, 61, 75, 82, 90, 100, 110, 128, 129, 130
- Special Secondary in
- Art, 61
- Business Education, 132
- Home Economics, 67
- Music, 75
- Physical Education, 90
- Speech Correction, 84
- Curricula, 34
- Degree, 34
- Lower Division, 34, 40, 63, 71, 91, 102, 134
- DEAN of
- Arts and Sciences, 45
- Education, 45
- Students, 45
- Degree curricula classified, 34
- Bachelor of Arts, 34
- Art, 61
- Biological Sciences, 112
- Botany, 112
- Business Administration, 132
- Business Education, 132
- Economics, 130
- Education, 48-59
- English, 100
- Fisheries, 114
- General requirements for, 37
- Group major, 149
- History, 131
- Home Economics, 67
- Master of Arts, 35
- Music, 75
- Physical Education, 90
- Pre-Medical Sciences, 112
- Secretarial Science, 132
- Social Sciences, 130
- Social Service, 130
- Speech, 82
- Speech and Dramatics, 82
- Speech-Radio, 82
- Wildlife Management, 114
- Zoology, 112
- Degrees (see Bachelor of Arts, degree curricula)
- Directory of personnel, 150
- Disqualification from College, 26
- Divisions, 45
- Fine and Applied Arts, 60
- Health and Physical Education, 89
- Language and Literature, 100
- Natural Sciences, 109
- Social Sciences, 127
- Divisional chairmen, 147
- Drafting, 71
- Dormitory, 10, 13
- Dramatics (see Speech and Dramatics)
- Dramatic activities, 15
- Dramatic workshop, 85, 87
- Dramatics fraternity (see Alpha Psi Omega)
- ECONOMICS
- A.B. Degree in Economics, 130
- Description of courses, 139
- Major, 130
- Minor, 135
- Education, 48-59
- Description of courses, 54
- (See also Credentials)
- Electronics, 123

- Elementary Credential (see Credentials)
- Employment service, 28
 - (See also Placement service)
- Engineering: courses, 123
- English, 100
 - A.B. Degree in, 100
 - Description of courses, 103
 - Major, 100
 - Minor, 102, 103
- Enrollment in classes (see Class enrollment)
- In the college (see Registration)
- Eureka Newspapers Award in Journalism, 32
- Expenses (see Living accommodations, Fees)
- Extension credit, 26
- FACULTY committees, 152
- Faculty personnel, 150
- Faculty Women's gift, 32
- Far Western Conference, 14
- Fees: occasional, required, student body, summer session, 27
- Fine and Applied Arts, 60
- Fish hatchery, 10
- Fisheries
 - B.S. Degree in, 114
 - Description of courses, 118
- Foreign languages (see Modern languages)
- French, 107
- Freshmen Assemblies, 15
- Fundamentals: Teacher Training, 49
- General major (see Group major)
- General Regulations (see Academic Regulations)
- General Secondary Credentials, 34, 53
- Geography courses, 144
- Geology course, 122
- Geometry (Plane), 39, 122
- Glaser, Bell W., Scholarship, 30
- Glee clubs, 80
- Grades, 23
- Graduate Nurses, 97
- Graduation honors, 29
- Graduation requirements (see Bachelor of Arts, Bachelor of Education)
- Group major, 149
- Gymnasium, 10
- HATCHERY (see Fish hatchery)
- Health and Hygiene, 97
 - Description of courses, 97
 - Junior high school major, 98
 - Minor, 98
- Health examination, 14, 16
 - Service, 16
- Henry F. Brizard Memorial Scholarships, 30, 31
- Hispanic America, course in, 137
- History, 131, 136
 - A.B. Degree in, 131
 - Description of courses, 136
 - Junior high school major, 135
 - Minor, 135
- Home Economics, 67
 - A.B. Degree in, 67
 - Description of courses, 68
 - Junior high school major, 68
 - Minor, 68
 - Special Secondary Credentials in, 67
- Honor points, 24
- Honors (see Scholastic honors)
- Hospitalization, 16, 27
- Housing, 13
- Humboldt County Federation of Women's Clubs scholarships, 31
- Humboldt State College Improvement Association, 151
- Humboldt State Ski Club, 14
- Hygiene (see Health and Hygiene)
- Hydrobiology, 119
- ICHTHYOLOGY, 119
- Index of Scholarship (see Scholarship index)
- Industrial Education, 71
 - Description of courses, 72
 - Junior high school major, 72
 - Minor, 72
- International Relations, 146
- Intramural Sports, 14
- JACKSON Loan Fund, 32
- Johnson, Annette Parton, Scholarship, 29
- Journalism, 102, 105
- Junior High School Credential (see Credentials)
- Junior High School majors
 - Art, 63
 - Home Economics, 68
 - Industrial Education, 72
 - Mathematics, 125
 - Music, 77
 - Speech and Dramatics, 84
 - Physical Education, 92
 - Health and Hygiene, 98
 - English, 101
 - Biology, 115
 - Economics, 130
 - History, 135
 - Social Sciences, 135
- KINDERGARTEN-Primary Credential (see Credentials)
- Kiwanis Club Award (see Arcata Kiwanis Club Award)
- Kramer Memorial Scholarship, 31
- LANGUAGES (see Modern Languages)
- Language and Literature, Division of, 100
- Latin-American Relations, 146
- Legal Aspects of Education, 55
- Library, 11
- Librarianship, 43
- Living accommodations, 13
- Loan funds, 32
- Location of the College, 10
- Lower division courses, 40, 46
- Lower division curricula (see Curricula)
 - Agriculture, 40
 - Drafting, 71
 - General Business, 134
 - Journalism, 102
 - Photography, 122
 - Pre-Agriculture, 40
 - Pre-Architecture, 41
 - Pre-Dental, 41
 - Pre-Engineering, 42
 - Pre-Forestry, 42
 - Pre-Legal, 42
 - Pre-Library Science, 43
 - Pre-Mortuary Science, 43
 - Pre-Nursing, 97
 - Pre-Optometry, 44
 - Pre-Pharmacy, 44
 - Pre-Veterinary, 44
 - Recreational Leadership, 91
 - Secretarial Training, 134
- "Lumberjack," 14
- MAHAN Scholarships, 31
- Majors, defined and listed, 38
- Marking system, 23
- Mathematics, 125
 - Description of courses, 125
 - Minor, 125
- Matriculation from high school (see Admission to the College)
- To other institutions (see Transfer to other institutions)
- Men's Athletics, 14
- Meteorology course, 122
- Military Service, credit for, 20
- Minors, defined and listed, 38
- Miscellaneous Awards, 32
- Modern languages, 107
 - Description of courses, 107
 - Minors, 107
- Mu Epsilon Psi, 14
- Music, 75
 - A.B. Degree in, 77
 - Activities, 14, 80
 - Description of courses, 78
 - Majors, 75
 - Minors, 77
 - Private Lessons, 81
 - Scholarships, 31
 - General Secondary Credential, 75
 - Special Secondary Credential in, 75

- Musical organizations, 14, 80
 - A cappella choir, 81
 - Band, 80
 - College chorus, 80
 - Orchestra, 80
- Musicians' Union Scholarship, 31
- NATURAL sciences, 109
- Nelson Hall, 10, 13
- Newman Club, 14
- Normal program, 24
- Note to prospective student, 8-9
- Numbering of courses (see Explanatory note)
- Nursing (see Pre-Nursing and Graduate Nurses)
- Nutrition, courses in, 69
- OFFICIAL Directory (see Directory of Personnel)
- Orchestra, 80
- Orientation, 59
- Organization of College, 45
- P. T. A. Scholarships, 32
- Personnel (see Directory of Personnel)
- Philosophy course, 145
- Photography courses, 122
 - Two-year terminal curriculum, 63
- Physical Education, 89
 - A.B. Degree in, 90
 - Club, 14
 - Description of courses, 92
 - Major, 90
 - Minor, 92
- Physical education credential (see Credentials)
- Physical examination (see Health Examination)
- Physical science courses, 121
- Physics courses, 122
- Physiology course, 118
- Placement service, 17
- Play Writing, 86, 87
- Political science courses, 145
- Practice teaching (see Student teaching)
- Pre-Professional courses (see Lower Division Curricula)
- Pre-Medical Curriculum, 112
- Pre-Nursing Program, 97
- Pre-Nursing Scholarship, 29
- Private lessons (Music), 81
- Probation, 26
- Program, Changes of, 25
 - (See also Normal program)
- Psychology courses, 146
- Publications, Student, 14
- QUANTITATIVE Analysis course, 121
- Quota Club Scholarship, 31
- RADIO
 - A.B. Degree in, 82
 - Courses, 86, 87
 - Programs, 14
- Recreation, 14
- Recreational Leadership, 91
- Redwood Hall, 13
- Refunds, 28
- Registration in classes (see Class enrollment)
- In the College, 22
- Regulations (see Academic regulations)
- Reports to students, 25
- Residence requirements, 35, 37, 49, 59
- Rho Sigma, 14, 29
- Rotary Club loan fund, 32
- Rotary Club Scholarship, 29
- SCHEDULE of classes, 47
- Scholarship index, 24
 - For credential candidates, 50
 - For degree candidates, 39
 - For students transferring to Humboldt, 20
 - (See also Probation and Disqualification)
- Scholarships and monetary awards, 29
- Scholastic honors, 29
- Science (see Natural sciences)
- Secondary Credential (see General Secondary Credential)
- Secretarial Science
 - A.B. Degree in, 132
 - Major, 132
- Secretarial Training curriculum, 134
- Self help (see Student employment service)
- Semester honors, 29
- Semester unit (see Unit of Credit)
- "Sempervirens," 14
- Social-Economic Reform Movements course, 139
- Social life, 14
- Social Sciences, 127
 - A.B. Degree in, 128, 130
 - Description of courses, 136
 - Majors, 127, 132
 - Minors, 135
- Social Service Curriculum, 130
- Societies, 14
- Sociology Courses, 147
- South Fork P. T. A. Scholarship, 31
- Spanish, 107
- Special Secondary Credentials
 - Art, 61
 - Business Education, 132
 - Home Economics, 67
 - Music, 75
 - Physical Education, 90
 - Speech Correction, 83
- Speech and Dramatics, 82
 - A.B. Degree in, 82
 - Description of courses, 85
 - Majors, 82
 - Minors, 84
- Speech-English, 82
 - A.B. Degree in, 82
- Speech-Radio, 82
 - A.B. Degree in, 82
- Speech Clinic, 86
- Speech Correction, 83, 88
- Sports (see Athletics and Recreation)
- State Board of Education, 150
- Student activities (see Clubs and societies, Athletics)
- Government, 14
- Life, 13
- Programs (see Normal program)
- Student body fees, 27
- Student Body Government, 14
- Student organizations (see Clubs and Societies)
- Student Teachers Club, 14
- Student Teaching, 57
- Subject A, 21
- Summary of expenses, 28
- Summer session, 22, 28
- Supervision Credential, 58
- TABLE of Contents, 6-7
- Testing Program, 15
- Transfer to other institutions, 21
- UNIT of credit, 23
- Upper division courses, 46
- U. S. History, 38, 136, 137
 - Required of all Degree Candidates, 38
- VARSIITY Hall, 10, 13
- Veterans, 16
- Vocational Rehabilitation, 32
- WILDLIFE management courses, 118
 - A.B. Degree in, 114
- Withdrawal from college, 25
 - From courses, 25
- Women's Athletic Association, 15
- Women's Athletics (see Intramural sports)
- YEAR book (see "Sempervirens")
- Year course, 47
- ZETA Eta Scholarship, 31
- Zoology courses, 120
 - Major in, 112
 - Minor, 115

CIRCULAR OF INFORMATION

FOR THE YEAR 1951-52

HUMBOLDT STATE COLLEGE

ARCATA, CALIFORNIA

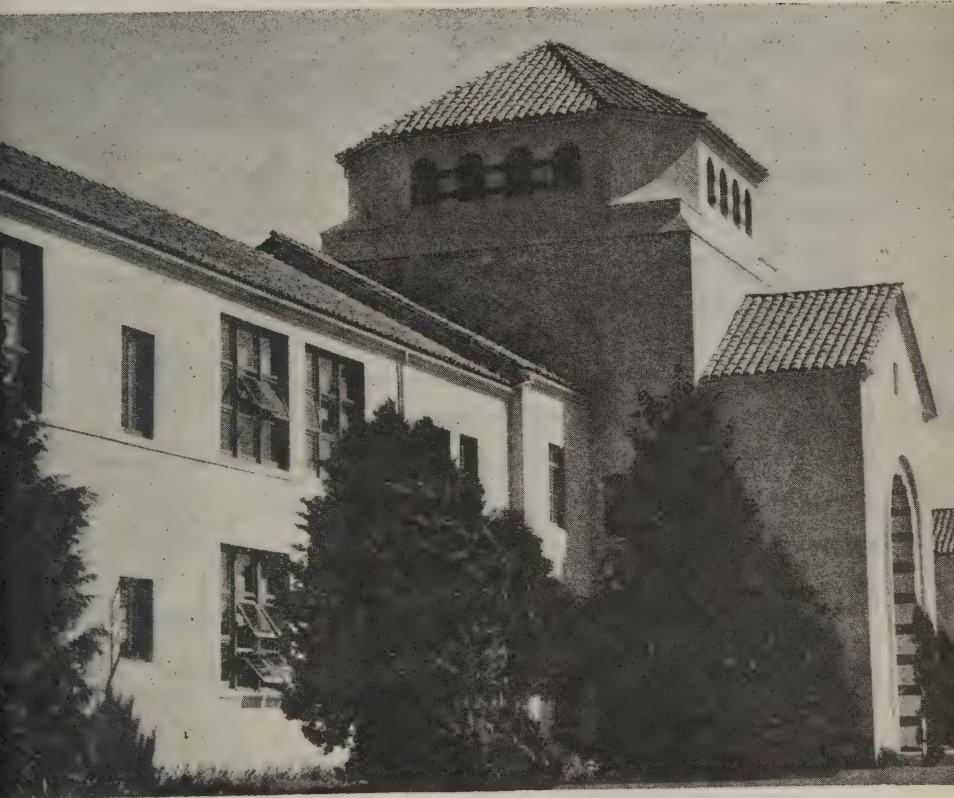
A FIVE-YEAR COLLEGE

ACCREDITED BY THE NORTHWEST ASSOCIATION OF SECONDARY AND HIGHER SCHOOLS,
THE WESTERN COLLEGES ASSOCIATION, THE UNIVERSITY OF CALIFORNIA,
AND THE STATE DEPARTMENT OF EDUCATION

STATE COLLEGES OF CALIFORNIA

California Polytechnic College.....	San Luis Obispo
Chico State College.....	Chico
Fresno State College	Fresno
Humboldt State College.....	Arcata
Los Angeles State College of Applied Arts and Sciences	Los Angeles
Long Beach State College.....	Long Beach
Sacramento State College.....	Sacramento
San Diego State College.....	San Diego
San Francisco State College.....	San Francisco
San Jose State College.....	San Jose

JAN 31 1952



ADMINISTRATION BUILDING

ACADEMIC CALENDAR—1951-52

FALL SEMESTER, 1951

August 15th-----	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.
Orientation and Personnel Tests-----	Thursday and Friday, September 6th and 7th. (Entering freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on September 6th in the College Auditorium.)
Program Counseling-----	Tuesday, September 11th
Registration and Payment of Fees----	Wednesday, September 12th
9.00-10.30 Surnames beginning with—A-E	
10.30-12.00 Surnames beginning with—F-L	
1.00- 2.30 Surnames beginning with—M-R	
2.30- 4.00 Surnames beginning with—S-Z	
Instruction Begins-----	Thursday, September 13th
Last Day for Program Changes-----	Friday, October 12th
Mid-term Warning Notices-----	Friday, November 9th
Armistice Day-----	Monday, November 12th
Thanksgiving Holidays-----	Thursday, November 22d, through Sunday, November 25th
Christmas Holidays-----	Saturday, December 22d, through Sunday, January 6th
Semester Examinations-----	Thursday, January 17th, through Tuesday, January 22d (including Saturday, January 19th)
Closing Date for Semester-----	Friday, January 25th

NOTE: No new student can be approved for admission unless his transcripts are all on file in proper order, nor may he register until he has taken the Personnel Tests scheduled above. Students who fail to take the tests and register at the appointed time will be assessed penalty fees totaling \$4 for late registration and testing service.

Transfer students from other colleges may be excused from taking the Personnel Tests only if reports have been received concerning tests taken in the college previously attended.

Veterans who have no letter of eligibility will be required to pay their own fees, pending receipt of authorization.

SPRING SEMESTER, 1952

January 7th-----	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.
Orientation and Personnel Tests-----	Thursday and Friday, January 24th and 25th. (Entering freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on January 24th in Room 136.)
Program Counseling-----	Monday, January 28th
Registration and Payment of Fees-----	Tuesday, January 29th
9.00-10.30 Surnames beginning with—A-E	
10.30-12.00 Surnames beginning with—F-I	
1.00- 2.30 Surnames beginning with—M-R	
2.30- 4.00 Surnames beginning with—S-Z	
Instruction Begins-----	Wednesday, January 30th
Last Day for Program Changes-----	Friday, February 29th
Mid-term Warning Notices-----	Friday, March 28th
Easter Holidays-----	Friday, April 11th, through Sunday, April 20th
Semester Examinations-----	Saturday, May 24th, through Thursday, May 29th
Memorial Day-----	Friday, May 30th
Commencement-----	Wednesday, June 4th

SUMMER SESSION, 1952

(Tentative dates)

June 16th-July 25th

POSTSESSION

July 28th-August 22d

TABLE OF CONTENTS

CALENDAR	Page
Academic	4
TABLE OF CONTENTS	6
NOTE TO THE PROSPECTIVE STUDENT	
A Word about the College	8
A Word about this Catalog	8
THE COLLEGE	
Location	10
Physical Equipment	10
Historical Note	11
STUDENT LIFE	
Living Accommodations	13
Student Organizations	14
Counseling and Guidance	15
Health Service	16
Veterans' Service	16
COMMUNITY RELATIONS	
Placement Service	17
Community Service	17
The Alumni Association	17
ADMISSION TO THE COLLEGE	
High School Preparation	18
Requirements for Admission	18
Admission with Advanced Standing	19
Admission to the Graduate Division	20
Transfer to Other Institutions	20
Subject A	20
College Aptitude Test	21
Registration	21
Summer Session	21
ACADEMIC REGULATIONS	
Unit of Credit	22
Classification of Students	22
Marking System	22
Normal Program	23
Class Enrollment and Changes of Program	24
Attendance	24
Auditors	24
Withdrawal from College	24
Reports to Students	24
Credit by Extension	25
Probation and Disqualification	25
FEES AND EXPENSES	
Fees	26
Refunds	27
Summary of Expenses for Regular Students	27
Student Employment Service	27

TABLE OF CONTENTS—Continued

HONORS, SCHOLARSHIPS AND LOANS	Page
Scholastic Honors	28
Honor Societies	28
Scholarships	28
Grants-In-Aid and Awards	33
Loan Funds	33
DEGREES, CREDENTIALS AND CURRICULA	
General Statement	35
Requirements for the Master's Degree	36
Requirements for Bachelor's Degree	38
Lower Division Curricula	40
COURSES OF INSTRUCTION	
Organization of the College	47
Explanatory Note	48
Division of Education and Psychology	49
Education	49
Psychology	61
Division of Fine and Applied Arts	62
Art	63
Home Economics	69
Industrial Education	74
Music	78
Speech	85
Division of Health and Physical Education	92
Physical Education	92
Health and Hygiene	102
Division of Language and Literature	105
English	105
Journalism	110
Modern Languages	111
Division of Natural Sciences	113
Biological Sciences	120
Physical Sciences	126
Mathematics	129
Division of Social Sciences	131
History	141
Economics	144
Business Administration	146
Geography	149
Philosophy	150
Political Science	150
Sociology	151
Group Major	154
DIRECTORY OF PERSONNEL	156
INDEX	163

NOTE TO THE PROSPECTIVE STUDENT

A WORD ABOUT THE COLLEGE

Humboldt State College offers the prospective student several advantages and attractions. It is a five-year college, whose courses are organized to meet a variety of educational needs. The basic studies in the liberal arts and sciences afford an opportunity for a cultural education. With some degree of specialization, these courses provide professional training in teaching, social service, business administration, and other fields. Also, they provide the background work which is required for many more highly specialized professions such as medicine, dentistry, or engineering.

The college also offers practical training programs in secretarial work, wildlife management, fisheries, radio production, and other vocational fields.

Besides these educational facilities, the college affords a congenial dormitory life, an activity program (music, athletics, dramatics), in which all are encouraged to participate, and a natural environment that is unexcelled for scenery and opportunity for outdoor life. And lastly, though not least, the friendliness of the students, and the cordial relationship existing between faculty and students are factors that promote the happy adjustment of the new student.

In cooperation with federal and state agencies, Humboldt State College offers to veterans of World War II an opportunity to pursue an educational program under highly favorable circumstances. Those eligible to receive government aid should consult representatives of the Veterans Bureau and the college authorities regarding enrollment.

A WORD ABOUT THIS CATALOG

This catalog is your introduction to the purposes and opportunities at Humboldt State College. In it we have sought to put all the information necessary for an understanding of the offerings of the college, its organization, and the way in which it functions. Careful study of it will enable you to follow the curricular requirements and regulations with a minimum of personal assistance.

Acquaintance with some matters may well be postponed until after you have become well established in the college, but you should familiarize yourself with certain parts of this catalog as soon as you have decided to enter the college, namely:

(1) *How you enter the College.* The requirements and procedure for matriculation in the college are explained in the section entitled "Admission to the College." The procedure for enrolling in classes is specified under "Academic Regulations."

(2) *College rules and regulations.* The rules and regulations applying to all students are found in the section "Academic Regulations." All students are held responsible for a knowledge of them. Those requirements referring to particular curricula are found under "Degrees, Credentials, and Curricula."

(3) *Your course of study.* You will find the various curricula outlined under "Degrees, Credentials, and Curricula." Detailed information is given under the various divisions in the section "Courses of Instruction." A system of cross references to pages in both sections should enable you to find your information readily. The explanatory note at the beginning of the section "Courses of Instruction" is called to your attention.

(4) *Your expenses.* Expenses and fees charged by the college and the student body are listed under "Fees and Expenses." They are payable at the time of registration (except in the case of veterans registering under a government program). Living arrangements are discussed under "Student Life." In the next section, you will also find information regarding scholarships and loans that are available; directions for seeking employment are given under "Fees and Expenses."

If you have questions, please feel free to communicate with the Registrar of the college or, if you can, visit us personally.

Meanwhile, we invite you to come to Humboldt and hope we can welcome you here when the new semester opens.

THE PRESIDENT AND FACULTY OF HUMBOLDT STATE COLLEGE

THE COLLEGE

LOCATION

Humboldt State College is located in Arcata, which is situated on the north shore of Humboldt Bay in Northern California. Backed by high, forested hills, the college occupies a conspicuous position along a hillside, about a mile from the center of town. It commands an unrestricted panorama of forested mountains, bay, dairy and farm lands, sand dunes, Pacific Ocean, and at night the lights of Arcata, Eureka, and Samoa.

Arcata, the first town to be established in northwestern California, is located on the famous Redwood Highway eight miles north of Eureka and 300 miles north of San Francisco. It is reached by the Northwestern Pacific Railroad, Pacific Greyhound Lines, and by Southwest and United Air Lines. It has a population of over 3,800. Lumbering, box manufacturing, and dairying form the basis of the business life of the community. Eureka nearby is a thriving city of about 23,000 people. It is the county seat of Humboldt County and is the site of woolen mills and large lumber mills. About 50 miles south of Eureka is Cape Mendocino, the westernmost point of the mainland of California.

The climate of the Humboldt Bay region, though moist, is stimulating and equable, the extremes of heat and cold being absent. Summer and fall are particularly delightful seasons.

PHYSICAL EQUIPMENT

Campus and Buildings

The physical plant of the college comprises a compact group of buildings and athletic facilities, appropriately landscaped. The main building, a rectangular two-story structure surrounding an inner court, houses the administrative offices, faculty offices, classrooms, library, social unit, and auditorium. In the rear are a modern gymnasium and stadium, with turf playing field and facilities for football, baseball, and track.

Back of the athletic field and gymnasium, the college owns a large tract of second-growth redwood forest, in which have been cut a number of trails and clearings for purposes of recreation and botanical study.

In front, across the street from the main building, are four tennis courts for the use of the students and faculty. The Student Union Building provides attractive quarters for the "Co-op" (the student fountain and bookstore), Student Body offices, and the College Health unit. Music and radio studios, a small greenhouse, a fish hatchery, and game-bird breeding pens have been provided for specialized class projects.

Jenkins Hall, a new and beautiful industrial arts building, was completed in 1950.

Campus housing includes Nelson Hall, a modern dormitory for women; Redwood Hall for men students, and Humboldt Village, where married veterans are accommodated.

A number of prefabricated buildings have been erected on the campus to provide temporary facilities for laboratories, classrooms, offices and student activities.

Library

A new library will be under construction in 1951 on the site to the south of the Administration Building. At present, the library, situated off the south end of the inner court, contains some 30,000 volumes. Though not large, this collection is well distributed as to subject matter, including recreational reading, and is constantly being enlarged. About 280 periodicals are received, almost two-thirds of which are scientific and professional and the rest of general interest. To supplement its holdings, the library draws upon the collection of the California State Library, the University of California Library and other research libraries with which inter-library loan service is maintained. The library needs of the college are thus adequately met.

College Elementary School

The college maintains a large, well-equipped elementary school on the campus, a short distance from the main building. It is here, as well as in the schools of Eureka and Arcata, through the cooperation of their school authorities, that the student teaching by the teaching credential candidates is conducted.

The College Elementary School extends from the kindergarten through the eighth grade and is housed in a commodious and modern building of reinforced concrete. Fenced-in playfields are provided for the demonstration of a modern program of physical education.

Master Development Plan

Last year the State Department of Public Works approved a master development plan for Humboldt State College, which when completed will provide an adequate campus for the predicted 1,600 students in 1965. In addition to a new library, science building, and corporation house now under construction, the plan projects 10 classroom buildings and two additional dormitories. Included for future construction are the following in order of priority: fine and applied arts building, including an auditorium; student union and cafeteria; wildlife and fisheries building; men's gymnasium and swimming pool; administration building; health building; physical science building; metal shops; home economics building; and an addition to the library.

This year will see the site expansion of the campus to include level areas to the south for a new baseball diamond and the extension northward of five acres, including Jolly Giant Creek, which will provide a natural setting for the wildlife and fisheries buildings and other facilities.

The expanded campus, when completed, will be replete with facilities for the various training programs, student activities, and student housing. It will be able to meet all the educational and cultural needs of the north-coast counties as well as provide training in special fields to the many students who come to Humboldt from other areas.

HISTORY

Humboldt State College is one of the 10 California State Colleges which have developed out of the old state normal schools. Its progress from a two-year normal school to a five-year liberal arts college is detailed in the following historical outline:

- June 16, 1913—Humboldt State Normal School was established by action of the Legislature. The bill creating the institution was introduced by the Honorable Hans Nelson, Senator from Eureka. The first president was Nelson B. Van Matre, and control was vested in a local board of trustees appointed by Governor Hiram Johnson.
- April 6, 1914—Instruction began, classes being held in the Arcata Grammar School buildings.
- May 26, 1915—First commencement was held, with 15 students receiving diplomas.
- Jan. 1, 1916—College moved to newly constructed temporary buildings on its permanent campus of 51 acres, donated by William A. Preston, and the Union Water Company.
- 1917—Legislature appropriated \$245,000 for the construction of the Administration Building.
- 1921—Name was changed to Humboldt State Teachers College and control was transferred from local board to State Board of Education, by act of the Legislature affecting similarly all of the state normal schools. Three- and four-year curricula were set up. Granting of the bachelor of arts degree in education was authorized.
- 1922—New Administration Building was completed and occupied.
- 1924—Dr. Ralph W. Swetman became president.
- 1926—First bachelor of arts degree was conferred on May 7th.
- 1928—Humboldt State College Improvement Association was formed. The original members were: H. W. Jackson, S. D. Cerini, Ralph W. Bull, J. J. Krohn, Vernon L. Hunt, Henry F. Brizard, Frank H. Tooby, George Averill.
- 1930—Arthur S. Gist became president.
The new gymnasium was completed.
Liberal arts curricula were established in the fields of biological sciences, English, and social sciences.
- 1932—Tennis courts and parking area were constructed.
- 1933—The College Elementary School was completed.
- 1935—The name was changed to Humboldt State College and authorization given to grant the bachelor of arts degree in liberal arts.
- 1937—Bachelor of education degree was authorized.
- 1940—Nelson Hall was completed, the only permanent dormitory on a state college campus.
- 1946—Redwood Bowl was completed, culminating a long cooperative enterprise between the state and federal governments.
College was accredited by the Northwest Association of Secondary and Higher Schools; and re-accredited by the State Department of Education for teacher training.
- 1947—General secondary credential was authorized, necessitating fifth year of graduate work.
- 1949—The master of arts degree in education and the social sciences was authorized. The bachelor of science degree was authorized for certain specialized curricula.
- 1950—Jenkins Hall (Industrial Arts building) was completed, and dedicated in April. The radio studio was remodeled.
The first master of arts degrees were conferred on June 7.
Dr. Cornelius H. Siemens became president on July 1.
The master plan for campus development was approved. Old temporary buildings were razed; Varsity Hall was remodeled as a Student Union building. Music Hall was remodeled to accommodate part of the music classes.
College was re-accredited for teacher training by State Board of Education.
- 1951—New library, biological sciences building, and corporation house were begun.
College was accredited for five-year period by Western College Association.
New Advisory Board was appointed with Don O'Kane, chairman, and Edward Goodwin, vice chairman.

STUDENT LIFE

LIVING ACCOMMODATIONS

Living quarters for students in attendance at the college are available in the college dormitories, Nelson Hall for women and Redwood Hall for men, which are operated under the general supervision of the Housing Manager. Nelson Hall is a beautiful modern building accommodating 70 women and includes the spacious dining commons of the campus. Redwood Hall houses 70 men comfortably.

Two students are assigned to each room in Nelson and Redwood Halls, with reasonable rental rates charged, determined by the State. Bedding and towels and their laundering are provided by the dormitory. Students living in campus housing are required to purchase a monthly meal ticket for the dining commons at a reasonable rate: Allowance is made for regular absence over weekends and vacation periods.

Other students, faculty, and their guests are privileged to take meals at Nelson Hall Commons.

The semester cost for students living in college dormitories has been set at the following rates: Nelson Hall, \$75 per student, per semester; Redwood Hall, \$60 per student, per semester. This amount is payable at registration: However, students may arrange with the Housing Manager to pay this amount in one to four installments.

The schedule for the two dormitories for next year will be as follows:

Open Wednesday noon, September 5, 1951.

Close Saturday noon, December 22, 1951, for Christmas holidays.

Open Sunday noon, January 6, 1952.

Close Friday noon, April 11, 1952, Easter holidays.

Open Sunday noon, April 20, 1952.

Close Thursday noon, June 5, 1952.

The campus dormitories are open to inspection by the authorized college administration at any time during the school year.

All lower division women students who do not commute daily to the campus, are expected to live in Nelson Hall, unless arrangements are made by the parents with the Dean of Women. It is advisable for upper division women to live in the dormitory if they are away from home.

Thirty housing units have been allocated for married veterans. These units comprise Humboldt Village, situated on the campus at a convenient distance from the central buildings. These are available at reasonable rates.

Application for admission to the dormitories and to the village should be made through the Office of Housing Manager. New women students who are not known personally by the faculty, *must accompany their housing application by two letters recommending the applicant's character and integrity.* These letters may be from teachers or friends who have a personal acquaintance with the applicant.

STUDENT ORGANIZATIONS

Participation in student activities, some of which carry college credit, is encouraged by the administration in the belief that such experiences may profitably supplement the student's academic program. The official organization of the student body is known as the Associated Students, providing opportunity for democratic self-government. Student body membership is prerequisite to participation in any extracurricular activity sponsored by the Associated Students.

This organization sponsors the publication of the college newspaper, "The Lumberjack," and the yearbook, "The Semper Virens." It operates the Student Cooperative store, which handles textbooks and supplies and serves fountain lunches.

To recognize scholastic achievement, encourage particular interests, and afford recreation, the students have established a number of organizations which are authorized by and coordinated through the Associated Students. Among these organizations are the following:

A Cappella Choir	Intercollegiate Knights
Accounting Society	Mu Epsilon Psi (music club)
Alpha Psi Omega (a National dramatics fraternity)	Newman Club
Amateur Radio	Physical Education Club
Associated Women Students	Rally Committee
Block H	Residence Hall Groups
Chi Sigma Epsilon (local scholas- tic honor society)	Rho Mu Chi (Radio Mike Club)
Christian Roundtable	Rho Sigma (sophomore honor society)
The College Chorus	Spokes (women's service group)
Conservation Unlimited	Student Teachers' Club
Home Economics Club	Women's Athletic Association
Humboldt State College Ski Club	Class organizations (freshman, sophomore, junior, and senior)
Humboldt Wives Club	

Social Life

The social atmosphere of Humboldt State College is planned to contribute both to the enjoyment of the students and to the development of social poise and gracious living. Numerous dances, teas, informal get-togethers and other social affairs are sponsored by various student organizations during the year. Special events are planned to welcome the new students.

The Associated Student Body sponsors an all-college social event each semester, free to student body card holders, which is the outstanding social event of the semester.

Athletics and Recreation

A well-rounded program of activities in the field of athletics and recreation includes regularly organized classes in a variety of sports; scheduled intramural competition for both men and women; utilization of regional resources for individual or group recreation, such as fishing, skiing, swimming, and hiking in the redwoods or at the beach; and participation in intercollegiate football, basketball, baseball, track, and other sports. The college is a member of the Far Western Conference, and the regulations of the conference govern athletic eligibility.

The Division of Health and Physical Education requires all men and women participating in intercollegiate or intramural sports to pass a health examination each season.

Music, Dramatics, and Radio

In addition to the musical activities offered as part of the academic program of the college (including the college chorus, little symphony orchestra, band, and a cappella choir), the music department seeks to enrich the musical background of all students through listening hours, sponsorship of a series of concerts in which noteworthy musicians of the West are presented under the auspices of Mu Epsilon Psi, and through cooperation with the Community Concert series, which makes available to students at reduced rates, concerts by noted artists.

Widespread opportunity for participation in dramatics is offered to the students through a varied calendar of events ranging from Shakespeare to modern one-act plays. Interest is further highlighted by the annual drama festival for the high school students of northern California, and by the annual interchange of plays with Chico State College. The Dramatic Workshop provides experience in other arts and crafts of the theater: scene design, stagecraft, lighting, and makeup.

The presentation of radio programs over the campus station, KHSC, and over the commercial radio stations in Eureka, KIEB and KHUM, provide practical experience for students interested in radio broadcasting.

COUNSELING AND GUIDANCE

The college maintains a program of counseling and guidance designed to aid the entering freshman in making a satisfactory adjustment and to afford an adequate follow-up program throughout his stay at Humboldt State College. Since many factors affect the academic progress of a student and his ultimate success in life, the guidance program is many-sided and every faculty member participates in some phase of the program. The activities of the various agencies are coordinated by the Dean of Students.

At the time of registration individual attention is given by the faculty program advisers, who are assigned on the basis of vocational objective or major field. A student is free to consult his adviser at all times concerning academic or personal problems. The academic success of his students is a matter of paramount concern to every instructor, and the policies of the college are geared to the attainment of high scholastic standards.

The college provides facilities for administering many types of standardized tests under the direction of the Testing Bureau. All students take the Ohio Psychological Examination (i.e., the college aptitude test), the Iowa Silent Reading Test, the Kuder Vocational Preference Test, and the Mental Health Analysis.

The Personnel Deans are available during the college year for interviews with all students concerning their problems, particularly freshmen and other new students. Several assemblies are held during the year for freshmen, to promote adjustment to college life.

An excellent opportunity for group guidance and social living is provided through the college of dormitories. The head residents administer the internal affairs of the dormitories, employing student government insofar as it seems feasible to do so.

HEALTH SERVICE

In order to safeguard the health of its students, the college engages a physician and a health director, and maintains a health service program. The college physician examines and counsels students on health problems. At least three medical examinations are given each student as follows:

- (1) At entrance (including a dental examination) ;
- (2) During the junior year;
- (3) Before graduation.

Included in the Student Body fee is a charge of \$1.50, covering physical education, hospitalization, and health services.

Emergency treatment is given in case of accident or illness. Limited hospital service with special rates in the local hospital is available to students who make arrangements for such services through the Health Department.

VETERANS' SERVICE

For veterans, special counseling and guidance services are available. Several members of the faculty have served in the armed forces and all are interested in the returned veterans and their problems.

When the need for specialized guidance and counseling is apparent, such services may be scheduled with the Veterans Administration Advice and Guidance Section in San Francisco upon the signed application of the veteran. This applies to veterans who are enrolled under Public Law 346, as well as Public Law 16. A Veterans Administration Training Officer makes frequent, periodic visits to the college. Members of the counseling staff of the college are also available to assist any veteran in determining his vocational goal or in solving his personal problems.

A faculty committee has been appointed to keep in touch with developments in regard to military training and programs offered by the various branches of the armed forces, for the information and guidance of students anticipating military service.

COMMUNITY RELATIONS

PLACEMENT SERVICE

The college maintains a Placement Bureau both for the service of graduates of the college and of employers. It seeks to help graduates, both current and past, find the positions best suited to their abilities and training, and to assist employers by recommending to them the candidates best suited to the positions to be filled.

The placement of graduates in the business and wildlife fields is handled by the departments. They are alert to discover not only beginning positions for students, but to secure promotion for former students.

Students seeking positions as teachers will find it to their advantage to work through the Placement Bureau. This bureau assembles and furnishes to school officials information about the graduates of the college who hold teaching credentials.

Since the organization of the Placement Bureau over 20 years ago, more than 95 percent of all graduates who desired teaching positions have been placed. In recent years, this figure has frequently reached 100 percent. Humboldt graduates are teaching successfully in almost every county of the State.

COMMUNITY SERVICE

Inasmuch as the college is a state institution, its facilities, when not in use for college purposes, are available for use by the citizens of the State. It particularly welcomes conventions, conferences, and assemblies of educational or cultural nature. The college auditorium seats 350. Arrangements for the serving of meals in the dining commons should be made with the manager of Nelson Hall.

THE ALUMNI ASSOCIATION

Active in the support of college affairs is the Humboldt State Alumni Association. This organization seeks to perpetuate college friendships, to promote the interests of the college, to acquaint prospective students with the opportunities open to them at Humboldt State, and to support worth while projects that contribute to the progress of the college.

Graduates and former students who have completed at least six units of work are eligible to membership in the association which holds annual or semiannual meetings, and publishes an alumni quarterly.

Former students who are eligible for membership may obtain a life membership in the association by the payment of a fee of \$10.

Officers of the Association at present are:

Mrs. Mildred Sears, President
Joseph Barkdull, Vice President
Mrs. Edith Olsen, Secretary
Forrest Waters, Treasurer

Mrs. Helen Guthridge, Editor,
"The Alumnus"
Harvey Harper, Fred Slack, Directors

ADMISSION TO THE COLLEGE

HIGH SCHOOL PREPARATION

Although the State College does not require the completion of specific subjects in high school as a prerequisite for admission, it is recognized that some courses may provide better preparation for college work than others. A broad, general education with exploratory courses in many fields should assist the student in the selection of his major curriculum. Background courses which are often prerequisite to advanced work and which should, if possible, be taken in high school, include the following: elementary algebra; plane geometry; and English, with particular emphasis upon composition and usage. Future teachers should take a variety of courses, including mathematics, science, foreign language, social science, and exploratory courses in fields of art, music, commerce, shop, or home economics to develop skills and interests. Engineering students should take at least three years of high school mathematics, chemistry, physics, and mechanical drawing. Prenursing students are advised to take chemistry, and premedical students should take as much foreign language as possible (preferably Latin and a modern language). Students interested in business administration or in wildlife management should include advanced algebra and trigonometry in their high school programs.

College students find the ability to type of immense practical value.

It should be emphasized that good habits of study and quality of work are of more importance than the specific pattern of courses chosen. Attention to the development of improved reading and spelling skill, enlargement of vocabulary, and mastery of the fundamentals of English usage will mean greater success not only in college, but also in later business or professional life.

REQUIREMENTS FOR ADMISSION

1. High School Graduates

Students who are graduates of accredited high schools, or those who have had equivalent preparation, should make application for admission through the office of the Registrar. Transcripts of record should be submitted upon graduation from high school for evaluation by the Registrar.

2. Adult Special Students

An applicant who has attained the age of 21 years and is not a high school graduate may be admitted to the State College as an adult special student provided that there is evidence of his ability to profit from college work. If such a student completes, with a grade point average of 1.0 (average of "C") or better, a program of 24 semester units of residence work in basic courses leading to a degree, he shall not be required to remove entrance deficiencies.

3. Veterans

Veterans who wish to be admitted to the college under the so-called "G. I. Bill," Public Law 346, should submit an application for a Letter of Eligibility to the Veterans Administration together with a photostatic or certified copy of their discharges. When they receive the Letter of Eligibility they must present it to the college when they report for registration.

Veterans with 10 percent disability or more should consult the Veterans Administration regarding the possibility of enrolling under the Veterans Rehabilitation Act, Public Law 16.

The State of California also offers educational assistance to veterans under the Veterans' Educational Institute, with headquarters in Sacramento. The state aid program may be used either before or after the federal educational assistance has been used, but it can not be used concurrently.

ADMISSION WITH ADVANCED STANDING

CREDIT FOR MILITARY SERVICE. Veterans who have served for a minimum of three months in the armed forces will receive credit in compliance with the recommendations of the American Council Guide to the Evaluation of Educational Experiences in the armed services. Wherever possible, this credit will be applied in satisfaction of specific requirements, but if this is not possible, it will be treated as unclassified, elective credit.

Veterans whose training included formal college work, or who completed courses of college level under the United States Armed Forces Institute or other formally organized college classes should submit complete transcripts of record covering all such courses if they wish to receive credit for this work.

FROM OTHER COLLEGES. Applicants for admission who have completed work in any recognized institution of collegiate grade may be admitted and given advanced standing as determined by the proper authorities. These applicants must present transcripts of record showing *satisfactory scholarship and honorable dismissal* from the institution last attended. Credit toward the fulfillment of graduation requirements will be allowed only insofar as the courses satisfactorily completed meet the requirements of the basic course pattern of the curriculum to be followed in this college.

No credit is allowed for teaching or other practical experience. Specific requirements in certain departments may be waived, however, on the basis of previous experience. An exemption allowed for experience will not carry units of advanced standing nor diminish the number of units required for graduation.

Credits earned in nonaccredited colleges may be accepted as a basis for advanced standing only to the extent that the applicant can demonstrate to the satisfaction of the State College authorities that a satisfactory degree of proficiency has been attained in the courses in question.

FROM JUNIOR COLLEGES. Credits earned in accredited junior colleges will be evaluated by the State College in accordance with the following provisions:

1. Not more than 64 semester hours of work may be allowed for credit. No upper division credit may be allowed for courses taken in a junior college.
2. No credit may be allowed for professional courses in education.

ADMISSION TO THE GRADUATE DIVISION

Holders of bachelor's degrees from accredited institutions will be admitted to the graduate division upon presentation of proper transcripts. Admission to candidacy for the general secondary credential or for the master of arts degree is contingent upon the satisfactory attainment of the personal and scholastic qualifications as prescribed in the regulations of the State Board of Education and the college.

TRANSFER TO OTHER INSTITUTIONS

Humboldt State College is accredited by the Northwest Association of Secondary and Higher Schools, by the Western Colleges Association, by the University of California, and by the State Department of Education.

Holders of the A.B. or B.S. degree from Humboldt State College are accepted for unconditional admission to the graduate school of the University of California at Berkeley upon presentation of transcripts of record. The amount of work to be taken for an advanced degree is determined when the student is interviewed at the university. This same procedure is applied to graduates of all universities and colleges. Accreditation by the state university implies similar acceptance by other institutions. Humboldt students transfer freely to other colleges, universities and professional schools.

All students intending to transfer to another institution should consult the requirements of the institution to which they intend to transfer and arrange their programs at Humboldt accordingly.

During the present emergency, many professional schools have introduced varied screening devices, so that admission is on a highly selective basis. Students who expect to transfer to these professional schools should acquaint themselves with prevailing standards in the particular fields to be pursued.

SUBJECT A

Students who enroll as freshmen at Humboldt State College are required to take the Subject A examination during the registration period. Those who pass the Subject A test with a satisfactory score enroll in English 1A, First-year Reading and Composition, during the first semester in college. Those who fail the examination are required to take Subject A, English Composition. Although credit is given for this Subject A course, these units may not apply toward the units in English required

for a bachelor's degree. The Subject A examination is a thorough test in English usage and composition.

All entering students except those who have passed the University of California Subject A examination or have passed a course in college composition in some other college are required to take this examination.

COLLEGE APTITUDE TEST

All new students are required to take the college aptitude test, which is given each semester, unless previous test scores on a similar test have been submitted by the college formerly attended.

REGISTRATION

Students should report for registration in compliance with the schedule announced in the calendar. (See page 5.) A faculty adviser is assigned to each student according to the curriculum he selects. After a program has been approved by the adviser, the student completes his registration by the payment of fees and the filing of his registration and course cards.

The student's official study list is filed in the office of the Registrar. Since this list is the basis for official reports and records, the student must assume responsibility for keeping this list accurate at all times.

Prior to formal registration, conferences may be held with advisers or with the Registrar about suitable programs or course requirements.

New students, both freshmen and transfers, should make preliminary arrangements for registration and evaluation of transcripts before the opening of the semester. Transcripts of former work should be filed with the Registrar two weeks in advance.

Students who are unable to report for registration during the designated period must make special arrangements with the administration and the faculty concerned. A special fee of \$2 is collected for late registration.

SUMMER SESSION

Each year the college holds a summer session designed to meet the needs of (1) high school graduates prepared to enter college, (2) students and teachers working toward a degree or a teaching or administrative credential, (3) teachers who desire to take "refresher" courses or to acquaint themselves with modern educational philosophy and procedures, and (4) persons seeking cultural advantages or combined study and recreation in one of the most scenic regions of California.

Admission to the summer session does not necessarily guarantee admission to the regular session. Students who wish to work toward either a degree or a credential must comply with regulations governing admission of regular students. (See pages 18-19.)

A feature of the recent summer sessions has been a workshop in elementary education, which has proved to be of special interest to in-service teachers.

The Registrar will send the Summer Session Bulletin upon request.

ACADEMIC REGULATIONS

UNIT OF CREDIT

A semester unit represents quantitatively 54 clock hours of work. It is usually administered as one recitation hour per week for 18 weeks, with two hours of preparation for each recitation hour. It may be administered as three recitation hours per week for 18 weeks without outside preparation.

CLASSIFICATION OF STUDENTS

Students are classified in two ways in terms of number of units completed.

Students who have completed less than 60 units are classed as *lower division students*. Ordinarily they are allowed to enroll only in lower division courses (see pages 47-48). Students who have completed 60 or more units are classed as *upper division students*. They may enroll in both lower and upper division courses.

A student's class is determined by the number of units completed, as follows:

Freshmen	-----	Less than 30 units
Sophomores	-----	30 to 59½ units
Juniors	-----	60 to 89½ units
Seniors	-----	90 or more units

During a given semester students registered for more than five units are classified as *regular* students. Students registered for five units or less are known as *limited* students.

MARKING SYSTEM

Grades

A five-grade marking system is used. The grades employed are defined as follows:

A	-----	Excellent
B	-----	Above Average
C	-----	Average
D	-----	Barely Passing
F	-----	Failure

Plus (+) as given in certain courses means passed with a grade of "C" or better. Inc. means "incomplete," W "withdrawn."

"Incomplete" will be given to students who have been doing passing work and who, through no fault of their own, are unable (a) to take a final examination or (b) to complete certain class or laboratory work by the end of the semester. The grade is not given to students who are failing or who are dilatory. *The uncompleted work must be made up within the next year of residence, or the "incomplete" automatically becomes a failure.*

Honor Points

Each of the above grades carries honor points as follows:

A-----	3 per unit
B-----	2 per unit
C-----	1 per unit
D-----	0 per unit
F-----	0 per unit

No honor points are given for an "incomplete" until the final grade is given. Neither units nor honor points are given for a course from which a student withdraws. Hence, marks of "incomplete" or "W" have no effect upon the Scholarship Index.

Scholarship Index

The Scholarship Index is a device for rating a student's scholarship average. It is derived by dividing the total number of honor points earned by the total number of registered units. In computing the index, units are not included for courses that carry no honor points.

If a student repeats a course in which he has received grades of "D" or "F," he will receive the grade and honor points earned in the repeated course except that unit credit will be allowed only once for a course.

Unless otherwise specified, the term "Scholarship Index" refers to the cumulative rather than the semester index.

NORMAL PROGRAM

The normal program is 15 or 15½ semester units. First-semester freshmen should take from 12 to 15½ units, depending upon the results of their testing programs as evaluated in conference with their advisers. After the first semester, a program of 17 units may be approved upon petition to the Scholarship Committee, if the student has made an average of 1.50 in all work undertaken. A program of 18 units may be approved by the committee if the student's average is 2.00 or better.

According to the definition of a semester unit as given above, a program of 15 semester units means 45 hours of class and home work each week.

The approval of the Health Department is also required for students who register for 17 units or more.

Students who find it necessary to earn part or all of their expenses should not expect to carry a full program of class work. If a student is employed more than 15 hours a week, he must file a petition in the office of the Dean of Students if he wishes to carry more than 12 units.

Petitions for overloads should be filed prior to the deadline date for program changes.

A graduate student may take not more than 16 semester units. If his program contains three or more graduate courses, he should limit his program to 12 or 14 semester units.

In order to secure credit for their work students must have their programs approved by the faculty adviser.

Work taken in excess of the authorized load may not be applied toward the minimum units required for the bachelor's degree.

CLASS ENROLLMENT AND CHANGES OF PROGRAM

Enrollment in a given class involves two steps: (a) recording the course on the Official Study List in the office of the Registrar; (b) filing a course card with the instructor.

Necessary program changes may be made during the first four weeks through the Registrar's office with the consent of the student's adviser. Thereafter no program changes may be made. Exceptional cases, however, may be referred to the Academic Regulations Committee.

Students who make any change in their programs are urged to follow carefully the prescribed procedure.

No student may be admitted to a class unless the instructor has received his course card. The only exception permitted is in those student activities for which credit is given, including interscholastic athletics, chorus, choir, orchestra, band, and dramatic workshop. Students may participate in these activities without registration for credit if they wish, but if credit is desired, registration must take place within the prescribed period for program changes. No exception to this rule will be permitted.

ATTENDANCE

The college believes that regular and punctual class attendance is important to a high standard of work. Each instructor makes his own regulations regarding attendance requirements.

Any member of the faculty may exclude from his course any student who has neglected the work of the course, or is discourteous, or persists in practices annoying to the instructor or the class.

AUDITORS

Audited classes must be counted as part of the student's regular load. Veterans who wish to count an audited course as part of the minimum load required for subsistence are required by the Veterans Administration to attend all class sessions and do all of the required work of the class except taking the final examination.

A student who completes a course as an auditor may not subsequently petition for credit.

WITHDRAWAL FROM COLLEGE

Upon petition, an honorable dismissal may be granted to any student in good standing, provided arrangements have been made with the Registrar.

Students who withdraw after the first four weeks of any semester shall be given "W's" or "F's" depending on the quality of their work. During the last four weeks of the semester, students who have to drop out of college because of illness or other unavoidable circumstances may petition for "incomplete" grades. This privilege shall be granted only to those whose work is of passing grade at the time of withdrawal.

Students who neglect to comply with these regulations shall have their courses automatically reported as "failures."

REPORTS TO STUDENTS

At the end of the semester, reports are given to the students, the regular marking system being used.

Mid-semester reports are made to students doing unsatisfactory work. These reports are followed by conferences with the student's adviser, instructor, or the Personnel Deans.

CREDIT BY EXTENSION OR CORRESPONDENCE

Except as provided hereinafter, students regularly enrolled may be admitted to extension classes upon the approval of the student's adviser. In such cases the combined program shall be subject to the established load limitations for regular students. Faculty members may not offer extension courses to regularly enrolled students on an extension fee basis.

The maximum credit toward the minimum degree and credential requirements is set at 24 semester units of either extension or correspondence work; not more than 12 of the units may be transferred from another institution.

An exception to the above ruling is made in the case of returning service men who may receive credit for all extension and correspondence courses which they may have completed, provided the courses are of college caliber, and that the applicant meets the college entrance, residence, and pattern requirements for a degree. The college further reserves the right to administer examinations covering any or all such courses for which credit is asked.

Neither extension nor correspondence credits shall be counted toward the residence requirements, unless an exception is made for a specific class by the institution.

PROBATION AND DISQUALIFICATION

Warning

A student shall be placed on warning who has a grade point shortage on the total units attempted of *five* or less.

Probation

1. Any student who has a shortage of *six* or more grade points on the total units attempted shall be placed on probation.

2. Any student on warning who has failed to achieve a 1.00 index after two semesters shall be placed on probation.

Disqualification

1. As long as a student is on probation he must maintain an average of "C" in a program of 12 or more units for each semester. Failure to do so will result in disqualification. Under special circumstances, the student may carry a lighter load if his program is approved by the Dean of Students.

2. Students who fail to achieve a "D" average in a given semester shall be disqualified except

(a) Students whose cumulative average at the end of the preceding semester is "C" or better; and

(b) First-semester freshmen, who will be placed upon probation.

Disqualified students may apply for readmission through the office of the Registrar after the lapse of one semester. They may re-enter upon probation, and the second disqualification is final.

3. Any student whose personal conduct is unsatisfactory may be disqualified by administrative action at any time.

FEES AND EXPENSES

FEES

Regular Fees

Payable by students taking more than five units at the time of registration. These are all required by the State except as noted otherwise.

Registration fee for students enrolled for over three semester units— per semester	\$6 50
Materials and service fee for students enrolled for over three semester units— per semester	7 50

*Student Body Fees **

Membership—per semester	\$12 50
Subscription to the <i>Sempervirens</i> (once a year only)	4 00
(The \$12.50 fee entitles the student to membership in the Associated Students, services of the Physical Education Department, Health and Hospitalization Services.)	
Diploma fee at graduation:	
With leather portfolio	2 50
Without leather portfolio	1 00

Occasional Fees

Registration fee for students taking three semester units or less	\$5 25
Materials and service fee for students taking three units or less	2 25
Extension fee—per unit	6 00
Late registration fee—regular students only	2 00
State credential fee—paid directly to Registrar's office—each credential	4 00
Special examinations—each examination	1 00
Change of program fee (Limited to regular, or regular to limited, or reduction in limited)	50
Miscellaneous Penalty fee (failure to meet administrative appointment or deadline)	2 00
Studio Lessons \$3.00 per lesson, payable at time of registration.	

Summer Session

Tuition fee—per unit	7 50
Summer session lecture and recreation funds *	50
Summer session health and physical education fee *	50
Late registration fee	2 00
(The late registration fee is due and payable by any student who registers after the first three days of the session. Registration day is counted as the first day of the session.)	

Auditors

Persons enrolled in college classes as auditors only are subject to the above fees in the same manner as those enrolled for credit.

* Not a state fee.

REFUNDS

Students who find it necessary to withdraw from college may, under conditions prescribed by law, obtain a refund of tuition fees. Application for refund must be made not later than two weeks following the day of the term that instruction begins. In case of illness, a duly authorized representative of the student may file the application for him. When a refund is granted, a charge of \$1.00 per semester is made to cover costs of registration. Students who wish to make application for a refund should consult the Comptroller for further information concerning the regulations which govern such procedure.

Student Body Fees

These fees are not returned if a student has participated in any student body activity.

SUMMARY OF EXPENSES FOR REGULAR STUDENT

<i>Item</i>	<i>Total for semester</i>
Registration fee-----	\$6 50
Materials and service fee-----	7 50
Student organization expenses (Club dues, yearbook, hospitaliza- tion, physical education, alumni fees, etc.)-----	25 00
Books, papers, and supplies (approximate)-----	15 00 to 50 00
Subtotal (approximate) -----	50 00 to 90 00
Board and room -----	240 00 to 300 00
Miscellaneous (entertainment, laundry, cleaning, etc.)-----	45 00 to 125 00
Total (approximate) -----	335 00 to 515 00
Bus fare: Eureka-Arcata, \$6.50 per month.	

STUDENT EMPLOYMENT SERVICE

Opportunities for part-time employment are available for deserving students. The college employs as much student help as possible, particularly in the commons, and for other types of work on the campus. The college also has requests for assistance for light housework, care of children, janitorial and clerical work. Application for employment should be made to the Dean of Students before registration.

For information in regard to loans and scholarships which are available, see page 28.

HONORS, SCHOLARSHIPS AND LOANS

SCHOLASTIC HONORS

GRADUATION HONORS are awarded to graduating students at commencement, subject to the approval of the faculty, on the basis of their scholastic index achieved in their undergraduate work as follows:

- Index 2.00-2.34 — with honor
- Index 2.35-2.74 — with high honor
- Index 2.75-3.00 — with highest honor

HONOR SOCIETIES

CHI SIGMA EPSILON is the upper division honor society, which elects members during the first part of each semester. High scholastic attainment, qualities of leadership, and high ideals of character form the basis of selection.

RHO SIGMA is a sophomore honor society, sponsored by Chi Sigma Epsilon, whose active members select them each semester from the sophomore class on the same basis as election to Chi Sigma Epsilon.

SCHOLARSHIPS

A considerable number of scholarships in varying amounts have been set up by individuals and organizations to provide recognition and financial assistance to capable and worthy students. Some are entrance scholarships to be awarded to high school seniors, and others are to be awarded to students already enrolled in college. Further information concerning the scholarships or the method of application may be obtained from the office of the Registrar. Unless otherwise indicated, applications should be filed prior to May 1st with the Registrar for the succeeding school year.

Unless the donor has stipulated otherwise, the scholarships are to be awarded by the Faculty Committee on Scholarships and Awards.

In addition to those listed, a number of new scholarships are in the process of being established, many of which will be available for the school year of 1951-1952.

THE ANNETTE PARTON JOHNSON PRE-NURSING SCHOLARSHIP. This annual award of \$50 commemorates the courage of Annette Parton Johnson, local nurse, who was credited with saving the lives of the patients in the old Trinity Hospital when it was destroyed by fire. The award was established by community agencies in appreciation of her service. It is open either to a high school graduate who will enroll in the pre-nursing course at Humboldt State College or to a college student already enrolled in that curriculum. High school students who are interested should submit transcripts of record and letters of recommendation from either the high school principal or the girl's adviser.

Contributors to this fund are: Arcata Business Girls, Arcata Chamber of Commerce, Arcata Chapter No. 207, Order of the Eastern Star, Arcata Kiwanis Club, Arcata Post No. 279 of the American Legion, Arcata Rotary Club, Arcata Woman's Club, and the Humboldt State College Faculty Wives Club.

THE ARCATA ROTARY CLUB HONOR ENTRANCE SCHOLARSHIP. This annual scholarship of \$50 is offered by the Arcata Rotary Club to an outstanding graduate of Arcata Union High School who enrolls as a beginning freshman at Humboldt State College. Applicants must present transcript evidence of high scholarship in the work taken during their last three years in high school, with not less than 10 recommending units from high school as a minimum scholarship requirement. They must also be recommended by the principal as persons of good character who, as high school students, have participated in school activities in a commendable manner.

THE ASSOCIATED BUSINESS GIRLS' SCHOLARSHIP. The Arcata Chapter of the Associated Business Girls awards a girl graduate of the Arcata Union High School a scholarship sufficient for the payment of all fees for the first year of the commercial course.

THE BELLE W. GLASER MUSIC SCHOLARSHIP. Miss Belle Dickson, formerly Assistant Professor of Education at Humboldt State College, has established this scholarship in honor of her aunt, Mrs. Belle W. Glaser, who was a prominent San Francisco musician. The purpose of the award is to provide a fund to encourage students who have demonstrated ability and interest in the field of music to continue their studies in this field. The award (\$50) is to be used either for tuition, fees, or for private music lessons. Any student with junior standing or higher, of satisfactory scholarship and character, is eligible to receive the award. Other things being equal, preference shall then be given on the basis of financial need.

THE BRIZARD MATTHEWS MACHINERY COMPANY SCHOLARSHIP. An annual award of \$100 has been established by the Brizard Matthews Machinery Company to be granted by the Faculty Committee on Scholarships and Awards to a deserving student without restriction as to high school of origin or status in college.

THE C. E. MCCREADY SCHOLARSHIP. An annual scholarship of \$200 has been established by Mr. and Mrs. C. E. McCready of Fortuna. Graduating high school seniors or college students may make application for this prize which will be awarded by the Faculty Committee on Scholarships and Awards.

THE CRAIG SCHOLARSHIPS. Two scholarships of \$100 each have been established by Miss Ann V. Craig, former member of the college faculty, in honor of her father and mother. The Edith R. Craig Scholarship is presented to a freshman student chosen at the end of his or her freshman year at the college. The John F. Craig Scholarship is presented to a sophomore student chosen at the end of his or her sophomore year at the college. Selection of the recipients is made by the Honors and Awards Committee from those students in the respective classes who have a

scholarship index of 2.0 or better and who have participated actively and commendably in at least one extra-curricular activity. Other considerations being equal, preference is given to the students with the greatest financial need.

THE ELLIOTT AND NEILSON SCHOLARSHIP. The accounting firm of Elliott and Neilson have established an award of \$100 to be granted annually to a student enrolled either as a junior or as a senior at Humboldt State College who is majoring in accounting. The award is to be based upon considerations of character and scholarship and application should be made through the Division of Social Sciences.

THE FOREIGN STUDENTS' ASSISTANCE FUND. In the interest of fostering international good will the students of Humboldt State College have set up a limited fund to be used to provide emergency financial assistance for foreign students who are currently enrolled. The fund has been increased by donations from outside groups, and is administered by the local chapter of the California Student Teachers Association and the Dean of Men.

THE FORTUNA ROTARY CLUB SCHOLARSHIP. This award of \$100 is granted by the Rotary Club of Fortuna to an outstanding graduate of Fortuna High School. Application for the award should be made through the Faculty Committee on Scholarships and Awards.

THE HENRY F. BRIZARD MEMORIAL SCHOLARSHIPS. Three honor scholarships have been established by Mrs. Henry F. Brizard, in memory of her husband, who was for many years an active friend of Humboldt State College. These scholarships were established to encourage deserving high school graduates to continue their studies, and students who have already demonstrated their ability at college to do advanced work, in the hope that such students, conformant to the ideals of Mr. Brizard, will render a valuable service to society.

The honor entrance scholarship (\$100) will be awarded to an Arcata Union High School graduate who presents evidence, by transcript, of high scholarship (at least 10 recommending units) in work taken during his last three years in high school, and is recommended by his principal as a person of good character.

An honor upper-division scholarship (\$150) will be awarded to a worthy student who has completed two years of work (60 semester units) at Humboldt State College with a scholarship index of not less than 2.0 (*B* average) and has participated commendably in at least one extra-curricular activity.

A special honor scholarship (\$100) will be awarded to a worthy student who has completed at least 30 semester units of work at Humboldt State College with an index of 1.50 or better, who has distinguished himself in any one special field, as music, drama, art, English, sciences, etc., and who has participated commendably in at least one extracurricular activity.

THE HUMBOLDT COUNTY FEDERATION OF WOMEN'S CLUBS SCHOLARSHIPS. Each year the Humboldt County Federation of Women's Clubs awards scholarships of \$50 each in voice and musical instruments. The music scholarships provide private instruction at the college. Recipients

are determined by an annual contest at the college in the spring. They must be high school graduates of good standing and must major or minor at the college in the field in which the award is made.

THE KRAMER MEMORIAL SCHOLARSHIP. This award of \$200 is sponsored by the Humboldt County Medical Society in honor of Doctor Lowell G. Kramer, formerly of Fortuna, California, who lost his life in military service in World War II. It is to be awarded annually to an outstanding student in the field of premedical sciences.

THE LAURA P. MAHAN SCHOLARSHIPS. Three or four scholarships carrying stipends of \$160 each are available to Humboldt State College students each year under the terms of the will of Laura P. Mahan. Two of the scholarships are in the field of art, and two are open to other college students. The awards are limited to graduates of Humboldt County high schools and to bona fide residents of Humboldt County. The amount of money accrued to the fund determines annually the number of scholarships to be awarded.

THE MUSICIANS' UNION, LOCAL 333, awards an annual scholarship of \$100 to an entering student with outstanding promise in music. The award may be applied toward general or specialized work in music or may be applied toward general college fees. The recipient should major or minor in music at Humboldt State College.

THE MRS. NELLE NEWBY BRIZARD MEMORIAL FUND. This scholarship has been provided by Paul A. Brizard of Arcata in memory of his wife, Nelle Newby Brizard; and consists of two scholarships of \$100 each that will be given each year to students of high scholastic attainment. Graduating high school seniors or college students are eligible for this award, which is administered under the direction of the Faculty Committee on Scholarships and Awards.

THE PACIFIC LUMBER COMPANY SCHOLARSHIP. An annual award of \$200 is offered by the Pacific Lumber Company of Scotia. The scholarship, which is open to either entering freshmen or to students already enrolled at Humboldt State College, is made through the Faculty Committee on Scholarships and Awards.

THE QUOTA CLUB SCHOLARSHIP. The Quota Club of Eureka has established a scholarship of \$100, to be awarded to an upper division woman who wishes to specialize in the education of the hard-of-hearing. This award is made in conformity with the international project of the Quota Clubs, which is to serve the hard-of-hearing, and also to stimulate interest in a type of educational service where there is a definite shortage of trained personnel. Satisfactory character and scholarship are considered, but special emphasis is placed upon the student's aptitude and personal qualifications for work with handicapped children. Application for the award should be made through the office of the Registrar.

THE ROBERT W. MATTHEWS SCHOLARSHIP. This is a grant of \$100 awarded annually by Robert W. Matthews of Arcata. Application should be made through the Faculty Committee on Scholarships and Awards. Entering freshmen or college students are eligible for this scholarship.

THE SOROPTOMIST CLUB SCHOLARSHIP. A worthy girl who is a high school graduate and a resident of Humboldt County who will enroll at Humboldt State College (or who may already be enrolled) in a degree curriculum will be selected each semester to receive a \$75 scholarship offered by the Soroptomist Club of Eureka.

THE SOUTH FORK P. T. A. SCHOLARSHIP. The Parent-Teacher Association of the South Fork Union High School awards a scholarship sufficient for fees and books to an outstanding and deserving graduate of that school who enrolls as a freshman student at Humboldt State College.

THE WOMEN'S AUXILIARY TO THE HUMBOLDT COUNTY MEDICAL SOCIETY SCHOLARSHIP. To stimulate interest of capable students, to encourage intelligent planning for a career in the nursing profession, and to furnish financial assistance for a worthy student during her three-year period of hospital training, the Women's Auxiliary to the Humboldt County Medical Society has set up an annual award varying from \$300 to \$500 to be paid in three annual installments to the hospital training school. Candidates for the award must be graduates of a Humboldt County high school and have completed two years of prenursing work in college with a grade point average of 2.00 or better. Character, personality, professional interest, and aptitude for nursing, as well as the financial status of the applicant, will all receive consideration. Final selection of the recipient will be made by the auxiliary, contingent upon admission of the winner to an approved hospital for training. If no candidate satisfactory to the auxiliary makes application, no award will be given for that specific year.

Formal application for the scholarship is to be made through the Registrar at Humboldt State College.

THE DR. VERNON L. HUNT SCHOLARSHIP. An annual scholarship of \$100 has been established by Dr. Vernon L. Hunt, of Arcata. Graduating high school seniors or college students are eligible to apply for this award, which is administered under the direction of the Faculty Committee on Scholarships and Awards.

THE ZETA ETA SCHOLARSHIP IN HOME ECONOMICS. Zeta Eta Chapter of Beta Sigma Phi offers an annual scholarship of \$60 to a woman student registered at Humboldt State College and majoring in home economics. Eligibility will be determined by the Honors and Awards Committee upon the recommendation of the Home Economics Department.

THE CALIFORNIA CONGRESS OF PARENTS AND TEACHERS SCHOLARSHIPS IN ELEMENTARY EDUCATION. To stimulate interest in elementary education, a \$300 scholarship has been provided by the California Congress of Parents and Teachers. This scholarship is available to senior students regularly enrolled in the general elementary teacher training program.

VOCATIONAL REHABILITATION. The Bureau of Vocational Rehabilitation, State Department of Education, offers its service to students who have an employment handicap resulting from physical disability of any kind. Included are vocational counseling, the payment of tuition and fees, and the provision of textbooks without charge.

GRANTS-IN-AID AND AWARDS

ATHLETIC GRANTS-IN-AID. Grants-in-aid in the amount of \$50 each are available to outstanding freshmen athletes. Recipients are selected by the high school administration and approved by the college scholarship committee. These grants to high school seniors have been made available for 1951-52 through the contributions of J. H. Crothers, of Eureka, Richard Fleisher, of Scotia, and Chris Artunas, of Eureka.

ARCATA KIWANIS CLUB AWARD. The Arcata Kiwanis Club awards a \$10 prize each year to the Arcata High School graduate who has made the highest scholastic record at Humboldt during his freshman year.

CHI SIGMA EPSILON FRESHMAN AWARD. This award is presented each spring to the student who has made the highest scholastic record in the freshman class at Humboldt State College.

EUREKA NEWSPAPERS AWARD IN JOURNALISM. The Eureka Newspapers annually award a total of \$25 to the student or students contributing the best writing to the "Lumberjack."

FACULTY WOMEN'S GIFT. The Faculty Women's Club of the College presents a monetary gift to the graduating woman who has achieved the highest scholastic average during her four-year course at Humboldt State College.

THE ROBERT GORDON SPROUL AWARD. A gift of \$75 has been made to Humboldt State College by the President of the University of California, Robert Gordon Sproul, to be used as a grant-in-aid for a student who wishes to transfer to any campus of the University of California for further graduate or under-graduate study.

LOAN FUNDS

GENERAL STUDENT LOAN FUND. A small loan fund is at the disposal of the college to assist worthy students in meeting their necessary expenses. It has been the policy to make this fund available only to senior students. Students needing financial assistance are advised to discuss their problems confidentially with the Associate Dean of Students. Application for all loans should be made through the Comptroller.

SPECIAL STUDENT LOAN FUND. The faculty and certain organizations in Humboldt County have provided a special loan fund to assist worthy students in registration expenses. The student should file his application prior to registration. Rarely are loans made to new students.

JACKSON LOAN FUND. A bequest of five hundred dollars from the estate of Mrs. H. W. Jackson established a loan fund for deserving students studying music.

ROTARY CLUB LOAN FUNDS. The Rotary Clubs of Arcata and Eureka have established loan funds available for worthy students recommended by the President.

THE BUSINESS AND PROFESSIONAL WOMEN'S LOANS. The Business and Professional Women's Club of Eureka maintains a fund from which scholarships are awarded on a loan basis to women selected by the club.

THE JAKE GIMBEL LOAN FOR GRADUATE STUDY. Men students at Humboldt State College who are working for the master's degree are eligible to apply for the loan of \$1,000 made available through the trust fund established by the late Jake Gimbel, and administered through the Bank of America National Trust and Savings Association, of Los Angeles. The loan is repayable without interest during a ten-year period from the date of issuance. Details may be obtained from the Registrar.

DEGREES, CREDENTIALS AND CURRICULA

GENERAL STATEMENT

The work offered by the college falls principally into two groups:

(1) Teacher education curricula, primarily organized for the training of teachers for the public schools of California, and (2) liberal arts curricula, offering either preparation for certain professions, or a general, liberal arts education. In addition, other programs have been organized to permit students to complete preprofessional training in several fields.

Some one- or two-year training programs which are terminal and vocational in character are offered. At present, plans are being developed for additional two-year general or vocational courses, and several surveys to determine the demand for training in certain fields and placement opportunities are now being made in such fields as dairying, agriculture, and lumbering. A Coordinator of Vocational Education has been named to exercise supervision over the development of these programs.

All of these curricula are under the general direction of the Dean of Instruction.

A more detailed outline is as follows:

I. Teacher Education Curricula

A. Graduate work leading to

1. The Master of Arts Degree with majors in:

Elementary Education (p. 37)	Administration and Supervision (p. 38)
Secondary Curriculum or Guidance (p. 37)	Social Sciences (p. 38)

2. The General Secondary Credential with majors in:

Art (p. 63)	Music (p. 78)
Business Education (p. 136)	Physical Education (p. 93)
English (p. 105)	Physical and General Science (p. 114)
Language Arts (p. 105)	Social Sciences (p. 132)
Life and General Science (p. 114)	Speech (p. 85)

3. Administration and Supervision Credentials as follows:

Elementary School Administration Credential (p. 59)
Elementary School Supervision Credential (p. 60)
Special Supervision Credential (p. 60)

B. Work leading to the A.B. Degree with the following credentials:

General Elementary Credential (p. 52)

General Junior High School Credential (p. 52) with majors in:

Art	Mathematics
Biological Sciences	Music
English	Physical Education
Health and Hygiene	Social Sciences
Home Economics	Speech and Dramatics
Industrial Education	

Kindergarten-Primary Credential (p. 52)

Special Secondary Credentials in:

Art (p. 63)	Music (p. 78)
Business Education (p. 136)	Physical Education (p. 93)
Home Economics (p. 69)	Speech Correction (p. 87)

Combinations of the foregoing credentials may be arranged.

II. Liberal Arts Curricula**A. The A.B. Degree with majors in :**

Allied Arts (p. 62)	Music (p. 78)
Art (p. 63)	Premedical Sciences (p. 116)
Biological Sciences (p. 116)	Secretarial Science (p. 136)
Botany (p. 116)	Social Sciences (p. 133)
Business Administration (p. 136)	Social Service (p. 133)
Economics (p. 133)	Speech-Radio (p. 85)
English (p. 105)	Zoology (p. 116) and a
History (p. 134)	Group Major (p. 154)
Home Economics (p. 69)	Drafting (p. 74)

B. The B.S. Degree with major in Wildlife Management (p. 118), Fisheries (p. 118), and Nursing (p. 102)**C. Lower Division curricula :**

- | | |
|--------------------------|---------------------------------|
| 1. Terminal Vocational : | Photography (p. 65) |
| Drafting (p. 74) | Recreational Leadership (p. 95) |
| Journalism (p. 107) | Secretarial Training (p. 139) |
2. Preparatory for transfer to other institutions (commonly designated as Pre-professional) :

Agriculture	Library Science
Architecture	Medicine
Dentistry	Mortuary Science
Engineering	Nursing
Forestry	Optometry
Law	Pharmacy
Letters and Science	Veterinary Science

Other terminal and preprofessional curricula may be arranged to fulfill specialized needs.

REQUIREMENTS FOR THE MASTER'S DEGREE

The college is authorized to confer the master of arts degree upon qualified candidates who meet the specified requirements and who hold appropriate California teaching credentials. Certain exceptions to this requirement are recognized in the case of students from other states or nations and those planning to teach in institutions not requiring teaching credentials. All programs are administered by the Graduate Study Committee of the college and further information may be obtained from the chairman of the committee.

General Requirements

1. A minimum of 30 semester units of upper division and graduate courses must be earned beyond the bachelor's degree.
2. At least 24 units of this credit must be earned in residence at Humboldt State College.
3. Not more than six units of credit may be earned in extension, or in directed teaching, and/or as credit transferred from another accredited graduate school.
4. At least 10 semester units of strictly graduate courses must be included in the program.
5. At least two approved one-semester courses outside the field of education must be included in the program.
6. A grade point average of B must be maintained in all work taken in the graduate program. No course with a grade below C may be applied.
7. An acceptable thesis or teaching project will be required, although at the discretion of the Graduate Study Committee, satisfactory performance on a final comprehensive examination may be substituted for this requirement.
8. All work offered for the degree must have been earned in the seven-year period immediately preceding the completion of the requirements.
9. Admission to candidacy for the degree shall be at the discretion of the Graduate Study Committee, and shall be achieved at least four months before completion of the requirements.

Thesis

All candidates for the master of arts degree in education who do not substitute the comprehensive examination for the thesis or teaching project will include this course in their programs. Each candidate will be assigned to an adviser and will complete a thesis or teaching project under his direction. Theses must be read and approved for the Graduate Study Committee by members of the faculty appointed for this purpose. Interested candidates should consult the Chairman of the Division of Education concerning the writing of a thesis or teaching project.

Course Requirements

The following outlines are statements of the course requirements that have been tentatively agreed upon as a basis for evaluating qualifications of candidates for the degree. The record of each candidate will be carefully considered in the light of these requirements, and such modifications in individual programs as are recommended by the student's adviser may be permitted with the approval of the Graduate Study Committee. All programs require a minimum of 30 units beyond the A.B. degree.

I. Elementary Education

1. Prerequisites (or their equivalents):

Educ. 113. Psychological and Social Foundations of Education	5 units
Elementary School Curriculum and Methods	5-10 units
2. Required for All Candidates

Educ. 224. History and Philosophy of Education	2 units
Educ. 230. Seminar in Elementary Education	2 units
Educ. 239. Advanced Elementary Curriculum	3 units
Educ. 265. Guidance in Education	2 units
Educ. 290. Thesis or acceptable project	3 units
Educ. 298. Master's Degree Seminar (Research Procedure)	2 units
Educ. 299. Special Problems in Education	2-4 units
Directed Electives outside Education	4-6 units
Directed Electives in Elementary Education	6-8 units

II. Secondary Education

1. Prerequisites (or their equivalents):

Educ. 113. Psychological and Social Foundations of Education	5 units
Educ. 175. Core course in Secondary Education	5 units
2. Required for All Candidates

Educ. 215. Evaluation in Education	2 units
Educ. 224. History and Philosophy of Education	2 units
Educ. 275. Seminar in Secondary Education	2 units
Educ. 298. Master's Degree Seminar	2 units
3. A Major Emphasis in either A or B as follows:

A. Curriculum and Methods of Instruction in Major Teaching Field	
Educ. 212. Psychology of Adolescence	2 units
Educ. 290. Thesis or Teaching Project	3 units
Educ. 299. Special Problems or Field Work in Teaching Field	2-3 units
Directed electives in major teaching field	3-6 units
Directed electives	7-11 units
(Each candidate must have at least two courses outside Education)	
B. Pupil Personnel and Guidance	
Educ. 212. Psychology of Adolescence	2 units
Educ. 265. Guidance in Education	2 units
Educ. 290. Thesis or Teaching Project	3 units
Educ. 299. Special Problems or Field Work in Guidance	2-3 units
Directed electives	12-13 units
(Each candidate must have at least two courses outside Education)	

III. Educational Administration and Supervision

1. Prerequisite
Appropriate Teaching Credential
Teaching experience (At least two years of successful teaching experience must be verified.)
2. Required for All Candidates

Educ. 215. Evaluation in Education.....	2 units
Educ. 239. Advanced Elementary Curriculum.....	3 units
Educ. 265. Guidance in Education.....	2 units
Educ. 290. Thesis or approved project.....	3 units
Educ. 298. Master's Degree Seminar (Research Procedures).....	2 units
Educ. 299. Special Problems in Administration or Supervision.....	2 units
Directed electives outside Education.....	4-6 units
3. Additional Requirements to qualify for Administration or Supervision Credential.
See pages 59 and 60.
Appropriate modifications will be made in the program for students who already have an administration or supervisory credential.

IV. Social Sciences

1. Prerequisite
Satisfactory evidence of preparation for the work proposed.
2. Suggested Program

Hist. 288A-288B. Seminar in California History (or equivalent year course)	6 units
Hist. 298. Master's Degree Seminar (Research Techniques)..... (Or acceptable equivalent in Historical Research)	2 units
Hist. 290. Thesis	3 units
Econ. 201A-201B. Development of Economic Thought (year course)	6 units
Directed Electives in Social Sciences.....	7 units
Directed Electives in Education.....	6 units

GENERAL REQUIREMENTS FOR THE BACHELOR'S DEGREE

All students who are candidates for the A.B. and B.S. degrees must comply with certain basic requirements established by the State Department of Education and the college. Additional requirements may be prescribed for a specific curriculum, but the requirements common to all degree curricula are as follows:

Units

For the A.B. degree, a minimum of 124 units is necessary for graduation. Of these, at least 40 units must be selected from upper division courses. For the B.S. degree, the minimum required is 128 units.

Residence

At least 24 of the total must be completed at this college in residence. Six of the last 30 units taken for a degree must be taken *in residence* at this college.

General Education

All candidates for either degree must complete 45 semester units in general education distributed as follows:

Social Sciences -----	9 units
Including the statutory requirement in United States history and constitution (see statement below), and courses from two or more of these fields: economics, geography, history, political science, sociology.	
Natural Sciences -----	9 units
Including one life and one physical science course chosen from the fields of astronomy, botany, chemistry, geology, physics, physiology, and zoology.	
Literature, Philosophy or the Arts -----	6 units
(Fine and applied arts not to exceed three of the six units.)	
Health and Physical Education -----	4 units
Including a course in personal hygiene and safety.	
Oral and Written Expression -----	6 units
Psychology -----	3 units
Restricted Electives -----	8 units
Chosen from the above fields or from: family life education, mathematics or not more than six units of foreign language.	
Total -----	45 units

The student should consult his adviser concerning the choice of appropriate courses to be taken to fulfill the above requirements.

Majors and Minors

Each candidate must complete a major.

A *major* is a sequence of courses arranged to provide concentration in a field of special interest to the student. The student should select his major field with care, in accordance with his interests and objectives. Although it is possible to transfer from one major field to another, it is usually done at the expense of time and units.

The requirement for a major varies considerably, according to the curriculum chosen by the student. He should consult the pattern outlined under the several divisions as to the requirements for the major of his choice.

In many of the degree curricula, a minor is also required. In general, minors are designed to give breadth and background. In the curricula leading to teaching credentials they may serve the additional purpose of providing a second subject field in which the student may teach if necessary. Some combinations are better than others for transfer credit; some are better as teaching combinations. The future plans of the candidate will determine in part what is desirable to choose for minor fields.

Candidates for the general secondary credential must complete a teaching minor, which is composed of at least 20 units. Teaching minors, which are outlined under the respective divisions, may be completed in the following fields:

Art	Life Sciences
Business Education	Mathematics
English	Music
French	Physical Education
Health Education	Physical Sciences
Home Economics	Social Studies
Industrial Education	Speech
Journalism	

All other minors (also described under each division) consist of a minimum of 12 units, at least six of which are upper division. These minors are available in the following fields:

Accounting	Industrial Education
Art	Journalism
Biology	Mathematics
Botany	Music
Business	Physical Education
Chemistry	Political Science
Economics	Psychology
Education	Radio
English	Secretarial Training
French	Sociology
Health and Hygiene	Speech and Dramatics
History	Wildlife Management
Home Economics	Zoology

Scholarship

A scholarship average of "C" (index of 1.0) is required for graduation with the bachelor's degree in all work taken, and in the major and minor, as well.

LOWER DIVISION CURRICULA

The college offers two types of lower division curricula. The first is terminal in character and is offered in the following fields:

Secretarial Training (p. 139)	Journalism (p. 107)
Drafting (p. 74)	Recreational Leadership (p. 95)
Photography (p. 65)	

As indicated on page 35, it is expected that these offerings will be expanded to include several additional fields.

The second type comprises a number of lower division curricula the continuance of which in the upper division the college is not equipped to provide. Most of such curricula are preprofessional or technical in character, and are designed to meet the needs of those students who plan to obtain a bachelor of arts or a bachelor of science degree or a certificate of completion at some other institution, but who wish to do the lower division work at Humboldt. *These students should acquaint themselves with the particular requirements of the institutions to which they intend to transfer and should ascertain which of the courses offered at the college will be accepted in preparation for their chosen fields of study.*

The following curricula are the more common fields of study in which the college offers lower division courses. These curricula are suggestive rather than fixed, since the specific course requirements of other institutions may vary. Nor is the list of lower division curricula complete; others may be arranged if the demand presents itself.

Since most of the students who take their lower division work at this college and then transfer elsewhere for the upper division work transfer to the University of California at Berkeley, the curricula described below are in most instances devised to meet the requirements of the University.

In some instances the university revises its requirements after the publication of this catalog, and the student is therefore cautioned that he should be sure to consult the latest bulletin from the university.

Students transferring to the University of California must meet (a) the entrance requirements of the university; and (b) the lower division requirements for the specific curricula involved.

PREAGRICULTURE

Students who expect to major in agricultural economics, animal science,* plant science, agricultural education, entomology, parasitology, or soil science may complete from one to two years of the program in this college. The requirements for the specific curricula vary somewhat in detail, and the student should follow as far as possible the pattern prescribed by the institution in which he expects to complete his work. During the first two years, the student usually takes the basic sciences, such as zoology, chemistry, botany or bacteriology; mathematics, at least through trigonometry; English or speech, and other general education requirements including fulfillment of the requirement in United States history and constitution. The details of the student's program should be worked out in consultation with his adviser.

PREARCHITECTURE

Professional work in architecture is often introduced in the lower division. For that reason, the student is advised to reach an early decision concerning the school of architecture in which he expects to matriculate. If he has entrance deficiencies, or if the school of his choice postpones the professional courses until the junior year, he may find it advantageous to enroll at Humboldt State College. Here, he should include in his program Physics 2A-2B, 3A-3B, Mathematics 3A-3B, 4A, and Industrial Education 7A and Engineering 22, if he has not had Mechanical Drawing in high school. He may also fulfill requirements in Subject A, United States history and constitution, foreign language, or other general courses prescribed by the professional school of architecture. A variety of courses in art may also be desirable.

PRE DENTAL

Subject A	Units
English 1A-1B or Speech 1-2 or 1-3	6
Physical Education	2
Science	28-32
(a) Chemistry 1A-1B, 8, 9 or 5	16
(b) Physics 2A-2B and 3A-3B or 4A-4B	8
(c) Zoology 1A-1B	8
Trigonometry (if not taken in high school)	3
U. S. History and Government	4
Electives selected from the following groups	
(a) Group I: 2 year-courses selected from	
Economics 1A-1B	
History 4A-4B, 8A-8B	
Mathematics 2, 3A-3B	
Political Science 1A-1B	
Psychology 1-33	
Sociology 1A-1B	
(b) Group II: 1 year-course from Group IIA or any 2 semester courses from Group IIB	

IIA

A year sequence of any foreign language
 English 46A-46B
 Music 101-102
 Philosophy 6A-6B

* See note under Preveterinary Medicine curriculum on page 45.

IIB

Art 2

Music 3A, 3B

Any two semesters of a foreign language in which at least six units have previously been completed or are completed concurrently.

Pre dental Hygiene

The first two years of the four-year program prescribed for the bachelor of science in dental hygiene is similar to that for the pre-dental program. The dental hygienist is equipped upon graduation and licensing to clean and examine teeth, take and develop X-rays and otherwise assist a dentist at a professional level. Applicants for admission to the professional curriculum must have completed 60 units in the lower division with a satisfactory scholarship record (approximately half way between a B and C average), including fulfillment of the requirements in Subject A, United States History and Constitution and either the equivalent of the associate in arts degree at the University of California, or an approved sequence of year courses as outlined by the university.

ENGINEERING

All students who expect to complete engineering curricula at the University of California are required to complete the following general requirements:

Subject A (English A or 1A at Humboldt meets this requirement)	Units
U. S. History and Constitution-----	4
Physical Education -----	2
Electives chosen from at least two of the following groups-----	12
1. English, speech	
2. Foreign language	
3. Business administration, economics, political science	
4. Anthropology, history, psychology, sociology	
5. Biological sciences	
6. Fine arts and philosophy	

Note: Students in industrial, agricultural, mechanical, mining, petroleum engineering, metallurgy, and mineral exploration must select 3 units from group 1, and the 9 additional units from two of the other groups.

Attention is also called to the fact that admission to the College of Engineering will be based primarily on the results of an entrance examination, details of which may be learned by writing to the Dean of the College of Engineering, Berkeley, California.

Students may complete approximately two years of engineering work at Humboldt State College in the fields of agricultural, civil, electrical, chemical, industrial, mechanical, petroleum, process engineering, and engineering physics. At least one year in the fields of metallurgical, mining engineering, and economic geology may be completed in this college.

The basic requirements for eight branches of engineering are tabulated below. The unit values of required courses are indicated in each

column. In each case, the column at the left indicates courses offered in the fall semester; at the right, courses offered in the spring semester.

Subject	Fall	Spring	Agric.	Civil	Elect.*	Engr. Physics*	Indust.	Mech.	Petr.	Process*
Freshman Year										
Mathematics.....	3A	3B	3 3	3 3	3 3	3 3	3 3	3 3	3 3	3 3
Physics.....		4A	4	4	4	4	4	4	4	4
Chemistry.....	1A	1B	5 5	5 5	5	5 5	5	5	5 5	5 5
Chemistry.....		8	3		3		3	3		
Engineering.....		22	2	2	2	2	2	2	2	2
Engineering.....	1A	1B	3	3 3			3	3	3 3	
PE Activities.....			$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$
Economics.....	40						$\frac{1}{3}$			
Geology.....	1A			3						
Sophomore Year										
Mathematics.....	4A	4B	3 3	3 3	3 3	3 3	3 3	3 3	3 3	3 3
Physics.....	4B	4C	4 4	4 4	4 4	4 4	4 4	4 4	4 4	4 4
History.....	70	PS 51	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Chemistry.....	5	8				3 3			3 3	3
Engineering.....	23	24	2 2	2	2	2	2 2	2 2	2	2
Engineering.....	8	35	3	2 3	3		3	3	3	3
Engineering.....	40	41	3 4				3 4	3 4		3
French.....	2A	2B				3 3				
PE Activities.....			$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$	$\frac{1}{2}$ $\frac{1}{2}$
Business Administration.....	14A	14B					3 3			

* Not all of the lower division requirements for this curriculum can be fulfilled at Humboldt State College.

General: Subject A requirement fulfilled either by *course* in Subject A or English 1A at Humboldt State College.

Electives: 12 units (except Chemical Engineering, for which see University bulletin for College of Chemistry) chosen from at least two of the following groups:

1. English, speech
2. Foreign language
3. Business administration, economics, political science
4. Anthropology, history, psychology or sociology
5. Biological sciences
6. Fine arts and philosophy

(Students in Industrial, Agricultural, and Mechanical Engineering must select 3 units from Group 1 and the 9 remaining units from two of the other groups.)

PREFORESTRY

Elementary algebra, plane geometry, trigonometry, and geometric drawing (if not taken in high school)

Subject A	Units
Botany 1A-1B	8
Chemistry 1A, 8	8
Engineering 1A-1B	6
Economics 1A-1B, 40	9
Geology 1A	3
Mathematics 3A-3B	6
Physics 2A-2B, 3A-3B	8
Physical Education	2
U. S. History and Constitution	4
Zoology or Biology	3
Choice of Public Speaking or English	6

PRELEGAL

Many colleges of law now require a bachelor's degree as a basis of admission. Students who expect to study law are advised to secure a degree if possible, majoring in social sciences, English, speech, or selecting a group major.

Those who expect to enroll in a college of law requiring less than an A.B. degree usually plan the lower division work to comply with the requirements for the associate in arts degree at the University of California or with the requirements of a specific college of law, many of which now require at least three years of prelegal study.

PRELIBRARY SCIENCE

A good general education is the best basis for librarianship. Four years of college, followed by one or two years of professional study in an accredited library school, is the usual requirement. A student should plan his undergraduate course so as to acquire a good background in history, and in American, English and foreign literatures, and a working knowledge of at least two foreign languages, especially French and German. Study in the social sciences, psychology and education, and the physical sciences is important, and intensive study in some one field, such as chemistry, music, art, political science, education, or business is desirable.

PREMEDICAL

An A.B. degree is desirable as a basis for admission to medical school, and wherever possible, students interested in medicine are advised to complete the requirements for the A.B. degree with a major in pre-medical sciences. This curriculum is designed to meet the requirements for an associate in arts degree at the University of California, and the student who wishes to transfer after two or three years at Humboldt may plan his program to conform with those requirements.

Preprofessional courses may also be arranged for dental assistants, chiropodists, medical technologists, laboratory technicians, occupational or physical therapists, and other related specialists.

PREMORTUARY SCIENCE

Two years of college work is required for admission to a college of mortuary science. A recommended program includes the following:

Subject A	Units
Art 1, 20A	5
Business Administration 14A-14B, 18, 118	12
English 1A-1B	6
Health and Hygiene 1, 160	5
Physical Education	2
Science	29
Anatomy 66	3
Bacteriology 1	5
Chemistry 1A-1B	10
Zoology 1A-1B, 160	11
Electives	4

PRENURSING

(See page 102.)

OPTOMETRY

The curriculum in optometry now requires three years of professional work, based upon a two-year preprofessional program. Students who expect to apply for admission to the curriculum in optometry at the University of California must meet the requirements of the associate in arts degree including the following specific courses :

	Units
Subject A	
Speech 1, 3	6
Foreign Language*	16
Chemistry 1A, 8	8
Bacteriology	5
Physics 2A-2B, 3A-3B	8
Anatomy 66	3
Mathematics 3A	3
Physical Education	2
Psychology 1-33	6
Zoology 1A	4
U. S. History and Constitution	4
Year course in philosophy, social science, or fine arts	6

PREPHARMACY

Four years of residence in a college of pharmacy is required in order to qualify for the California State Board of Pharmacy examination. The following courses offered at Humboldt State College are required in the pharmacy curriculum at the University of California, but it may be to the student's advantage to transfer before he has completed all of these courses, in view of the residence requirement.

PREPHARMACY

	Units
Subject A	
English 1A-1B or Speech 1 and 3	6
Mathematics C and D (if not taken in high school), 1, 2, or 3	3-9
Botany 1A	4
Zoology 1A-1B	8
Chemistry 1A-1B, 5, 8, 9	19
Physics 2A-2B, 3A-3B	8
Physical Education	2
U. S. History and Constitution	4

PREVETERINARY MEDICINE

	Units
Subject A	
English 1A	6
English 1B or Speech 1	3
Chemistry 1A-1B, 8	13
Economics 40	3
Mathematics C (if not taken in high school)	3
Physics 2A-2B	6
Zoology 1A-1B, 160	11
Electives	12
Chosen from the fields of : Social sciences, foreign languages, philosophy, psychology, fine arts and literature, and/or additional courses in English, speech, and mathematics.	
Electives to total	60

NOTE : This schedule also satisfies the general requirements of the Animal Science Curriculum if Botany 1, Geology 1, Bacteriology 1, and Economics 1A-1B are taken as electives.

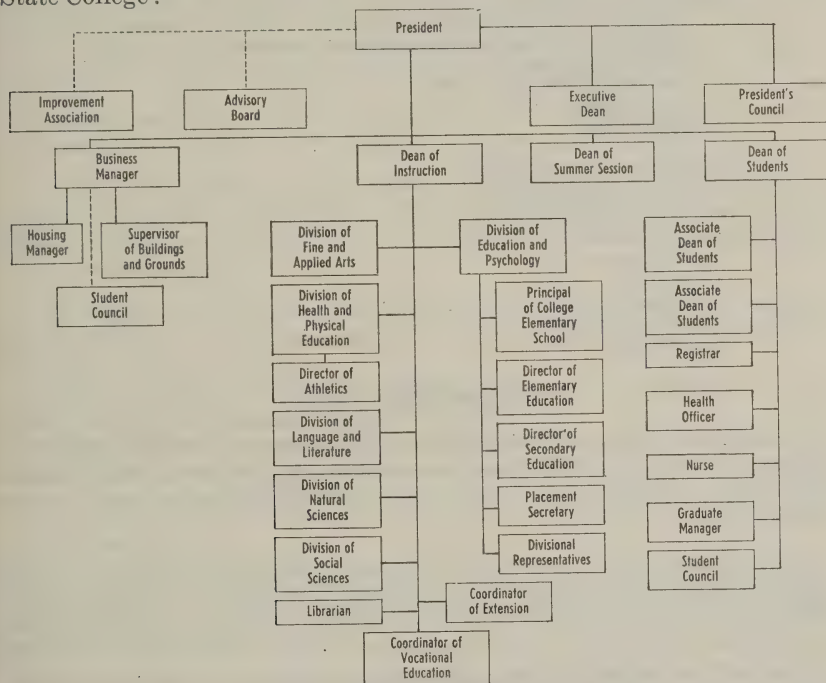
* See associate in arts degree requirements.

Students interested in other lower division, preprofessional curricula should consult the Registrar. Among other programs which may be arranged are such curricula as laboratory technician, physiotherapist, occupational therapist, medical technologist, chiropodist, or airline hostess.

COURSES OF INSTRUCTION

ADMINISTRATIVE ORGANIZATION CHART

The following chart shows the functional organization of Humboldt State College :



The above organization chart implements the recent administrative reorganization of state colleges. The college is administered under three large categories : business, instruction, and student guidance and activities. The solid lines indicate relationship of responsibility and supervision, whereas the dashed lines show advisory relationship.

The Dean of Instruction supervises the work of the six divisions of the college. Under these divisions, the fields of study are grouped as follows :

1. The Division of Education and Psychology
 - a. Elementary Teacher Education
 - b. Secondary Teacher Education
 - c. Administration and Supervision (Elementary)
 - d. Psychology
2. The Division of Fine and Applied Arts
 - a. Art
 - b. Home Economics
 - c. Industrial Arts
 - d. Music
 - e. Speech, Drama, and Radio

3. The Division of Health and Physical Education
 - a. Physical Education for men and women
 - b. Health and Hygiene
4. The Division of Language and Literature
 - a. English Language and Literature
 - b. Foreign Languages and Literature
 - c. Journalism
5. The Division of Natural Sciences
 - a. Biological Sciences
 - Anthropology, Bacteriology, Biology, Botany, Physiology and Anatomy, and Wildlife Management and Fisheries
 - b. Physical Sciences
 - Chemistry, Geology, Physics
 - c. Mathematics
 - d. Engineering
6. The Division of Social Sciences
 - a. Business Administration
 - b. Business Education
 - c. Economics
 - d. Geography
 - e. History
 - f. Philosophy
 - g. Political Science
 - h. Sociology

EXPLANATORY NOTE

Lower division courses carry numbers between 1 and 99, inclusive. They are designed for freshmen and sophomores, but are open to juniors and seniors as well. They do *not* count as upper division work in any department.

Upper division courses carry numbers between 100 and 199, inclusive. They are open only to students who have attained upper division status and who have completed a lower division course or courses deemed preparatory by the department concerned. Lower division students are not usually admitted to upper division courses except in special cases with the consent of the instructor.

Graduate courses are given numbers between 200 and 299, and are open only to students who have been admitted to the graduate division.

Courses in directed teaching carry numbers between 300 and 399, inclusive. They are open only to upper division or graduate students.

Courses designated with a letter only (e.g., Mathematics C) are usually courses of high school level that are taught in college.

The semester in which a course is taught is indicated parenthetically after the title. Those courses designated "year" run consecutively through both the fall and spring semesters.

Because of varying exigencies from semester to semester in making up the schedule of classes, the instructor and time and place of meeting of each course of instruction are not given in the following descriptions. At the end of each semester a schedule of classes, containing such information for the following semester, is mimeographed for distribution.

Division of Education and Psychology

Professional curricula have been organized under the authority of the State Board of Education, leading to the following teaching credentials:

1. **KINDERGARTEN-PRIMARY**, authorizing the holder to teach in any kindergarten and in grades one to three of any elementary school.

2. **GENERAL ELEMENTARY**, authorizing the holder to teach in any elementary or junior high school through the eighth grade.

3. **JUNIOR HIGH SCHOOL**, authorizing the holder to teach in grades seven, eight, and nine of any elementary or secondary school.

4. **SPECIAL SECONDARY CREDENTIAL**, authorizing the holder to teach a special subject in elementary and secondary schools. Humboldt State College offers special secondary credentials in art, music, physical education, and home economics.

5. **GENERAL SECONDARY CREDENTIAL**, authorizing the holder to teach in the secondary schools and in grades seven and eight of the elementary schools.

Majors and minors for the general secondary credential are available in many fields, listed on pages 35, 39-40.

This credential requires the completion of a year of work after receiving the bachelor's degree.

6. **ELEMENTARY SCHOOL SUPERVISION**, authorizing supervision of elementary schools.

7. **SPECIAL SUPERVISION**, authorizing supervision in a special subject field such as music, art, or physical education, in which the applicant holds a special secondary credential.

8. **ELEMENTARY ADMINISTRATION**, authorizing the administration of elementary schools.

ADMISSION TO CANDIDACY FOR TEACHING CREDENTIAL

Students seeking admission to candidacy for a teaching credential must file formal application for admission by the end of the sophomore year or as soon thereafter as possible. Application forms may be secured from the office of the Chairman of the Division. A committee on credentials will study carefully the qualifications of each applicant, by means of appropriate tests, personal interviews, and other pertinent data. Candidates will be accepted who have met the following standards, based on the regulations of the State Board of Education:

1. **INTELLIGENCE**. All candidates are required to make a satisfactory score on a standard college aptitude test.

2. **SCHOLARSHIP**. Candidates are required to "demonstrate and maintain scholastic ability of not less than that indicated by a grade-point

average of "C." A "C" average in all lower division work will be necessary for unqualified admission to candidacy for a credential.

3. TYPE OF PROGRAM PURSUED. The candidate must have completed two years of liberal arts education, as well as the courses prerequisite to the training for the type of credential sought.

4. PROFESSIONAL APTITUDE, PERSONALITY, AND CHARACTER. "The candidate shall demonstrate suitable aptitude and fitness for teaching and for adjustment to public school conditions." Evidence of this will be found in personality and character traits which are in keeping with the standards of the profession. Specific attention shall be directed to physical appearance, poise, dress, vitality, social attitude, co-operativeness, temperament, and integrity.

5. PHYSICAL FITNESS. The candidate must comply with the standards of physical fitness required for a teaching credential.

6. SPEECH AND LANGUAGE USAGE. Better than average proficiency in oral and written language is required.

7. MANY-SIDED INTEREST. "The candidate shall demonstrate diverse and well-balanced interests. He shall be able to understand and interpret his major interest and field of study in suitable relationship to all others."

8. FUNDAMENTALS. All candidates for a credential are required to demonstrate proficiency in the fundamental school subjects. A satisfactory score must be made on standard tests in: arithmetic, elementary science, language usage, reading, social studies, and spelling. The student is also expected to demonstrate proficiency in handwriting.

9. PROFICIENCY IN MAJOR FIELD. No candidate for a secondary or junior high school credential will be approved without a written statement from his subject adviser verifying the candidate's ability and likelihood of teaching success in his major field.

GENERAL CREDENTIAL REQUIREMENTS

UNITS REQUIRED. For those credentials which may be granted concurrently with the A.B. degree, 124 units are required. Not more than 40 units in Education or any one subject field may be applied toward the basic 124 units.

If a candidate already possesses an A.B. degree, the minimum requirement is 24 units completed at this college.

UNITED STATES HISTORY AND CONSTITUTION. All candidates for credentials are required to pass satisfactorily a course or an examination in United States history and constitution, or to present appropriate courses in these fields from an accredited institution.

CITIZENSHIP. Only United States citizens may become candidates for long-term teaching credentials. Aliens who have filed their first papers are eligible to apply for short-term credentials. Failure to complete the naturalization process within six months of the date of eligibility will result in the revocation of the credential. After an applicant has become naturalized, he may qualify for a long-term credential.

MAJORS AND MINORS. Candidates for the general elementary and the kindergarten-primary credentials are expected to complete a major in education and a minor in a field selected in consultation with their advisers. Candidates for the general junior high school credential are required to complete a major and a minor in subject fields taught in junior high school. Candidates for the special secondary credentials must complete a major in the special field. Completion of a minor in a high school subject field is recommended, particularly for those who plan later to complete a general secondary credential. Candidates for a general secondary credential must complete a major and a teaching minor, in subjects taught in the high school. A secondary teaching minor requires a minimum of 20 units while a secondary major requires a minimum of 36 units in a field, at least 12 of which must be in the upper division.

Departmental requirements may occasionally exceed these minimum requirements.

SCHOLARSHIP. Candidates for teaching credentials must comply with the following scholarship requirements:

1. A grade of "C" or better must be earned in each required course in education. Students who fail to meet this requirement cannot be admitted to directed teaching.

2. An average grade of "C" or better in all college work is required for admission to Education 133 or 175.

3. Candidates for the general secondary credential must maintain an index of 1.5 on all work taken in the upper division and the major field and 1.75 on all work taken in the graduate year.

4. Only a grade of "+" (satisfactory), inc. (incomplete), or "F" (failure) will be given for directed teaching. A grade of "incomplete" indicates that the student may be allowed an additional time in which to meet the required standards. A grade of "F" indicates that the candidate is considered to lack the requisite qualities for successful teaching. The units earned in directed teaching do not figure in the calculation of the candidate's scholarship index.

COURSE REQUIREMENTS FOR CREDENTIAL CURRICULA

The curricula outlined below have been developed to enable the student to meet the requirements of the college for the A. B. degree, including a major in education and a minimum of 45 units of general education, and at the same time to qualify the candidate for recommendation for a teaching credential. It is recommended that these curricula be followed carefully, as they have been planned to insure the successful student a strong background of general and professional preparation for teaching. In order to meet requirements for prerequisites, courses should be taken in the year suggested whenever possible. Some courses are available only once a year or once in each two years. The student must be careful to take such courses whenever offered so as to avoid possible delay in obtaining a credential. Selection of a minor and of electives should be done in consultation with the student's adviser.

Recommended curriculum for a combination of Elementary Kind.-Prim. Junior H. S.
the A.B. degree and the credential indicated * Credential Credential Credential

First Year			
	Units	Units	Units
Engl. 1A-1B—First-year Reading and Composition	6	6	6
H.H. 1—Personal Health and Safety	2	2	2
Music 10—Musicianship	3	3	—
Natural Science (including at least one course in biological sciences. Biology 10A-10B is recommended)	6	6	6
Or. II—Orientation II	1	1	1
P.E. 5 or 15—Freshman Physical Activities	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
P.E.—Selected activity	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Social Science (Sociology 1A-1B or History 4A-4B is recommended)	6	6	6
Electives or minor	6	6	9
Second Year			
Art 1—Art Structure	2	2	—
Literature or Philosophy	3	3	3
Music 60 or 65—Chorus or A Cappella Choir	1-2	1-2	—
Natural Science (including at least one course in physical sciences. Physical Science 5A-5B is recommended)	3-6	3-6	3-6
P.E.—Selected Activities	1	1	1
Psych. 1—General Psychology	3	3	3
Social Sciences, including:			
Geog. 5—Introduction to Economic Geography	3	3	—
Fulfillment of requirement in United States History and Constitution (See page 50)	4	4	4
Spch. 1—Fundamentals of Speech	3	3	3
Electives or minor	4-8	4-8	11-14
(or major for junior high school credential)			
Third Year †			
Art 190—Elementary School Art	2	2	4-5 (Choose any two courses)
Biol. 190—Elementary School Science	2	2	
I. E. 15—Elementary School Crafts or			
I. E. 51—Fundamentals of Industrial Education	3	3	
Mus. 190—Elementary School Music	2	2	
P. E. 190—Elementary School Physical Education	2	2	
Educ. 113—Psychological and Social Foundations of Education	5	5	5
Educ. 133A—Elementary School Curriculum (Grades 1-4)	—	4	—
Educ. 133B—Elementary School Curriculum (Grades 5-8)	—	—	4
Educ. 153—Audio-Visual Education	2	2	2
Educ. 195—The Teaching of Secondary School Subjects (Major field)	—	—	2
Engl. 178—Children's Literature	3	3	3
P. E. 191—Singing Games and Folk Dances	1	1	—
Electives or minor or major	9	5	10-11

* Unless candidates show satisfactory proficiency in mathematics, they may be required to pass a course offered by the college for the removal of this deficiency.

† The Coordinator of Elementary Teacher Education will assign students enrolled for the general elementary or the kindergarten-primary credentials to one of two sequences to distribute the opportunities for directed teaching equitably between the two semesters.

Suggested curriculum for a combination of the A.B. degree and the credential indicated.

	Elementary Credential	Kind.-Prim. Credential	Junior H. S. Credential
--	--------------------------	---------------------------	----------------------------

	Fourth Year	Units	Units	Units
Educ. 104—Principles of Elementary Education----	2	2	-	-
Educ. 133A-B—Elementary School Curriculum ----	8	-	-	-
Educ. 137—Rural Education -----	2	-	-	-
Educ. 175—Core Course in Secondary Education----	-	-	-	5
Educ. 192A-B—Kindergarten Methods and Materials -	-	4	-	-
Educ. 320A—Directed Teaching—Grades 1-4-----	5	5	-	-
Educ. 320B—Directed Teaching—Grades 5-8-----	5	-	-	5
Educ. 321—Directed Teaching—Kindergarten-Prim-	-	5	-	-
mary -----	-	-	-	3
Educ. 340A—Directed Teaching—Secondary-----	-	-	-	18
Electives or minor or major-----	9	15	-	-

Students are advised not to take the junior high school credential alone because of its limited authorization and because it cannot be used as a basis for an Administrative Credential. Candidates for a combination of the general elementary and the junior high school credentials should meet the requirements for the general elementary credential and take in addition:

Education 195 (major field)-----	2 units
Education 175 -----	5 units
Education 340A -----	3 units

Since completion of a major and a minor in junior high school fields is required, it may be necessary for the student to use a portion of his elective units in meeting these requirements. At least one summer session in addition to the four years may be needed to complete requirements for the two credentials.

Holders of the general secondary credential may qualify for the general elementary credential by taking an additional six units in elementary education, including methods of teaching basic elementary school subjects, curriculum, and directed teaching.

THE SPECIAL SECONDARY CREDENTIALS

These credentials represent a high degree of specialization in a particular subject field at both the elementary and the secondary levels. The holder must have training and competence to qualify him for teaching his subject at either level. Specific requirements for these credentials are given under the respective divisions as follows:

Division of Fine and Applied Arts

Special Secondary Credential in Art, page 63.

Special Secondary Credential in Home Economics, page 69.

Special Secondary Credential in Music, page 78.

Special Secondary Credential in Speech Correction, page 85.

Division of Health and Physical Education

Special Secondary Credential in Physical Education, page 94.

Division of Social Sciences

Special Secondary Credential in Business Education, page 134.

The student begins his professional training in the junior year. It is recommended that the professional courses in Education be taken in the following sequence:

Third Year

Educ. 113—Psychological and Social Foundations of Education-----	5 units
Educ. 153—Audio-Visual Education -----	2 units
Electives, major or minor-----	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education-----	5 units
Educ. 320C—Directed Teaching in the Elementary School (Major Field)---	2 units
Educ. 340A—Directed Teaching in the Secondary School (Major Field)---	3 units
Educ. 195—The Teaching of (Major Field)-----	2 units
Electives, major or minor-----	18 units

Candidates for a special secondary credential are urged to secure a general credential for either elementary or secondary teaching in addition to the special credential. The requirements for the general secondary credential are for the most part a continuation of the work done for the special credential. A flexible program can be arranged to permit the candidate to qualify for a general elementary credential in addition to the special secondary. Information on this program may be secured from the office of the Chairman of the Division.

THE GENERAL SECONDARY CREDENTIAL

The program for this credential must provide a broad, cultural background, plus professional education for effective secondary school teaching. Since the requirements are somewhat more exacting than for certain other credentials, they are summarized below.

Summary of General Requirements

1. Possession of an approved bachelor's degree from a recognized college or university.
2. A scholarship average of 1.5 for all work taken in the upper division and in the major field.
3. Fulfillment of the requirement in United States history and Constitution.
4. Formal admission to candidacy for the credential. Application should be made at the end of the sophomore year. Students who transfer to Humboldt State College during their junior year or later should apply during their first semester of residence. Candidacy is subject to continuous review until the credential is earned.
5. Admission to graduate standing. Formal application for graduate standing must be made and admission approved before the student can matriculate for the credential.
6. Completion of a graduate year of two semesters or the equivalent, with at least 30 units of work beyond the bachelor's degree with a grade point average of 1.75 or better, including at least six units in professional courses in education and six units in subjects commonly taught in the junior or senior high school.

7. Completion of a teaching major with at least 36 units of lower, upper division, and graduate work, at least 12 in the upper division.

8. Completion of a teaching minor with a minimum of 20 units.

9. Completion of 24 units in courses in professional education with a grade of "C" or better, at least six of which must be taken in the graduate year, and including six units of directed teaching in the major and minor fields.

10. Completion of at least 24 units of work in residence at Humboldt State College, including at least 15 of the 30 required in the fifth year.

Detailed requirements are given under the appropriate instructional divisions as indicated above. It is recommended that the professional courses in education be taken in the following sequence:

Third Year

Educ. 113—Psychological and Social Foundations of Education-----	5 units
Educ. 153—Audio-Visual Education -----	2 units
Electives or major or minor-----	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education-----	5 units
Educ. 195—The Teaching of Secondary School Subjects (Major field)-----	2 units
Completion of Pre-secondary requirements and teaching minor-----	23 units

Fifth Year

Educ. 265—Guidance in Education-----	2 units
Educ. 275—Seminar in Secondary Education-----	2 units
Educ. 340A-340B—Directed Teaching -----	6 units
Upper Division or Graduate courses in teaching fields-----	6 units
Major, minor, or electives-----	14 units
Total -----	30 units

Students planning to earn a master's degree in combination with the general secondary credential will be required to take the additional graduate courses in education prescribed on page 37.

DESCRIPTION OF COURSES

Upper Division

104. Principles of Elementary Education 2 units

Principles guiding the various aspects of good teaching are developed consistent with current educational thought. Students will be given opportunities to apply these principles to practical situations.

Two one-hour periods per week.

113. Psychological and Social Foundations of Education * 5 units

A unified approach to the role of education in society, the learner's physical, intellectual and emotional development, his learning processes, and his interaction with other individuals and groups. Includes case studies, observation of teaching, and participation in school situations.

Five one-hour periods per week.

Prerequisite: Psychology 1.

125. The Public School System (summer) 2 units

* This course fulfills specific requirements for Educational Psychology, Child Growth and Development, and Educational Sociology.

- 132. Observation and Participation** (fall, spring) **1-2 units**
 An opportunity for upper division students to obtain a better understanding of teaching through supervised participation in classroom situations.
 This course is not applicable to the requirement in directed teaching.
 From three to six hours per week, depending upon units to be earned.
 Prerequisite: Consent of the instructor.
- 133A-133B. Elementary School Curriculum** **8 units**
 A comprehensive overview of teaching in the elementary school. It covers such topics as courses of study; units of work; methods; materials; discipline, etc.
 133A—Lower grades.
 133B—Upper grades.
 The time spent will be approximately equivalent to six hours a week of class work with four hours of observation and participation in classroom procedure.
 Prerequisite: Education 113 and cumulative grade index of at least 1.00.
- 137. Rural Education** **2 units**
 A course designed to develop an understanding of the place of the school in the life of rural communities, ranging from the open country to small cities at the heart of rural areas. Special emphasis on school organization, records, and legal and professional relationships affecting the rural teacher.
 Two one-hour periods per week.
- 139. Advanced Elementary School Curriculum** (summer) **2 units**
- 140A. Administration of Elementary Schools** (summer) **2 units**
- 140B. Field Problems in Administration** (summer) **2 units**
- 141A. Supervision in Elementary Schools** (summer) **2 units**
- 141B. Field Problems in Supervision** (summer) **2 units**
- 145. School Finance** (summer) **2 units**
- 148. Legal and Professional Aspects of Education** (summer) **2 units**
- 153. Audio-Visual Education** (fall) **2 units**
 A study of the vast array of educational resource materials available to teachers. Techniques of preparation, selection, use, and evaluation of materials. Opportunities provided for developing skill in care and operation of standard equipment.
- 165. Pupil Personnel and Guidance** (summer) **2 units**
- 175. Core Course in Secondary Education** **5 units**
 A study of the legal and professional obligations of the secondary school teacher; the principles, practices, and philosophy of secondary education; the secondary school curriculum; the methods used in directing the learning situation, classroom organization and management. Observation of secondary schools and participation in school activities will be required.
 Prerequisite: Education 113 and cumulative grade index of at least 1.00.
 Five one-hour periods per week.
- 190. The Teaching of Elementary School Subjects** **Each course 2 Units**
 A series of courses dealing with the teaching of special subjects taught in the elementary school. Each course will emphasize sources and utilization of materials at various grade levels. Observation and experience in preparing teaching materials will be included.
 These courses should be taken prior to Directed Teaching, and include the following:
 Educ. 190A. Elementary School Art (see also Art 190)
 Educ. 190M. Elementary School Music (see also Music 190)
 Educ. 190PE. Elementary School Physical Education (see also P. E. 190)
 Educ. 190S. Elementary School Science (see also Biol. 190)

194A-194B. Kindergarten Methods and Materials (year) 2-2 units

The nature and purpose of the kindergarten and preparation and arrangement of facilities, including the construction of simple playhouse furniture and floor toys; the basic methods and skills involved in conducting kindergarten, including art, music, science, and cooking activities. Observation and participation in kindergarten activities.

Prerequisite: Education 113 and cumulative grade index of at least 1.00.

Two one-hour periods per week.

195. The Teaching of Secondary School Subjects Each course 2 units

Professional courses in the teaching of the major and minor fields at the secondary level. Each course deals with the objectives, materials, and special procedures involved in teaching that field. Observation and experience in preparing teaching materials will be included.

These courses will be taken prior to or concurrently with Directed Teaching.

The numbers and titles of these courses, to be offered as needed, are:

- Educ. 195A. The Teaching of Art
- Educ. 195B. The Teaching of Business Education
- Educ. 195E. The Teaching of English
- Educ. 195HE. The Teaching of Home Economics
- Educ. 195M. The Teaching of Music
- Educ. 195Ma. The Teaching of Mathematics
- Educ. 195S. The Teaching of Science
- Educ. 195SS. The Teaching of Social Studies
- Educ. 195Sp. The Teaching of Speech
- Educ. 195PE. The Teaching of Physical Education

199. Special Problems in Education 1-2 units

Research in Education to be carried on under the direction of the college.

Graduate Division

212. Psychology of Adolescence (fall) 2 units
(See Psychology 212, page 61.)

215. Evaluation of Learning 2 units

The selection, use, and interpretation of formal and informal methods of evaluating learning; use of standard statistical procedures in the interpretation of results; and practice in administering evaluation instruments.

Two one-hour periods per week.

224. History and Philosophy of Education 2 units

The development of the major theories of education, with their contributions and applications to modern educational procedures. The student is afforded opportunities to evaluate critically the contributions of the past in developing an understanding of education in a democracy.

Two one-hour periods per week.

230. Seminar in Elementary Education 2 units

An advanced course in elementary education, dealing with the findings of modern educational research relative to current issues in curriculum development and teaching method.

Prerequisite: Teaching experience or consent of the instructor.

265. Guidance in Education 2 units

Advanced study of the principles involved in assisting the student in the formulation and acceptance of adequate personal, educational, and vocational objectives; a critical study of the bases of individual differences and of appropriate educational adjustments; organization and use of cumulative personnel data in guidance procedures.

275. Seminar in Secondary Education**2 units**

An advanced course in secondary education dealing with the problems of teaching in and administering the secondary school; recent reports of national professional groups; and newly developed research in this field.

Prerequisites: Graduate standing and Education 113 and 175 or their equivalents.

Two one-hour periods per week.

290. Master of Arts Thesis**3 units**

See page 37.

298. Master's Degree Seminar**2 units**

A seminar organized to deal with the problems arising from the initiation of research by candidates for the master of arts degree. A study of procedures in educational research, types of problems amenable to experimentation, obstacles frequently encountered, and pitfalls that exist.

299. Special Problems in Education**2-4 units**

Independent graduate level research on special problems. Particularly adapted to experienced teachers. A maximum of six units may be earned in any combination of Education 299 and 199.

DIRECTED TEACHING

Directed teaching is one of the most important stages in the preparation of a teacher. It provides preservice experience in organizing and managing classroom situations, directing and appraising learning activities, keeping school records, and participating in the community activities of the school.

The work of the student teacher is carried on through the stages of observation, participation, and responsible teaching under the guidance of carefully selected supervising teachers and supervisors. Most of the directed teaching at the elementary levels is done in the College Elementary School, while cooperative arrangements with secondary schools in the college neighborhood make possible a wide variety of outstanding teaching situations at these levels.

All students will be expected to spend at least three hours per week throughout a semester for each unit of credit in directed teaching. A part of this time will be devoted to preparation of teaching materials and to conferences with supervisors.

This work involves professional responsibilities that must be met promptly and regularly, and students are not expected to participate in extracurricular activities or register for course work that will in any way interfere with their directed teaching.

ADMISSION TO DIRECTED TEACHING

1. During the semester preceding the student's registration for directed teaching, he should file an application for an assignment in the office of the Coordinator of Secondary Teacher Education (for Education 340A-340B), or in the office of the Coordinator of Elementary Teacher Education (for all elementary assignments).

2. Applicants shall not be deemed eligible for assignment to directed teaching unless they have met the stated prerequisites and have maintained satisfactorily the standards prescribed for admission to the credential program. See page 50.

320A-320B. Directed Teaching in the Elementary School¹ **5-5 units**

Students teach under supervision in an elementary school for one semester for the General Elementary Credential. Taken during the same semester, each half requiring nine weeks and carrying five units of credit.

320A—Lower Grades (Prerequisite: 133A)

320B—Upper Grades (Prerequisite: 133B)

320C. Directed Teaching in the Elementary School (Special Fields)¹ **1-4 units**

Directed teaching at the elementary level for candidates for the special secondary credentials in their respective fields and for other students needing special assignments in directed teaching. Credit is allowed at the rate of one unit for three hours of participation per week.

Prerequisite: Education 113 and appropriate elementary methods courses, and consent of the Director.

321. Directed Teaching in the Kindergarten¹ **5 units**

Students teach under supervision in the College Elementary School 15 hours per week for one semester for the special Kindergarten-Primary Credential. This time is devoted to conferences, preparation of materials, and teaching.

Prerequisite: Education 192A-B, and satisfactory skill in piano.

340A-340B. Directed Teaching in the Secondary School¹ **3-3 units**

Each student is assigned to a supervising teacher in a cooperating secondary school, where he will gradually assume responsibility for two teaching assignments in his major and minor fields, together with other school activities.

Candidates for the special secondary credential in business education may register for 340A for four units.

Five hours of teaching per week for a semester, for each assignment.

Prerequisite: Education 175 and 195.

350. College Teaching in Special Fields **2 units**

Students assist in college classes under the supervision of the regular instructors in these courses. May not be substituted for other directed teaching to fulfill requirements for recommendation for credentials.

Prerequisites: Education 320C or 340A and recommendation of the Chairman of the Division.

360. Advanced Teaching **2 units**

This course provides an opportunity for students to do advanced teaching, which may include work with special subjects or experimentation with methods of teaching.

Prerequisite: Prior credit in directed teaching or teaching experience.

ADMINISTRATIVE CREDENTIAL CURRICULA

An elementary school administration credential is required for the position of principal of a school of more than five teachers. A supervisor devoting more than half-time to supervision of instruction is required to have an elementary school supervision credential.

General requirements for these two credentials are the possession of a valid general elementary credential, and two years of successful teaching experience in the elementary school.

For the elementary school administration credential, it is necessary to complete 30 semester units of upper division or graduate work in addition to the holding of the general elementary credential, or training which an institution approved or accredited to recommend for the elementary school administration credential certifies as fulfilling institutional requirements for a full year of work in addition to the holding of the general elementary credential.

¹ See scholarship requirements, page 51.

For the elementary school supervision credential, the requirement is 24 semester units of upper division or graduate work in addition to the holding of the general elementary credential.

Course requirements for these credentials are as follows:

	<i>Administration</i>	<i>Supervision</i>
Education 140A. Administration of Elementary Schools-----	2	2
Education 140B. Field Problems in Administration-----	2	-
Education 141A. Supervision in Elementary Education-----	2	2
Education 141B. Field Problems in Supervision-----	-	2
Education 139. Advanced Elementary School Curriculum-----	2	2
Education 115. Measurement in Education-----	2	2
Education 125. The Public School System-----	2	-
Education 145. School Finance-----	2	-
Education 148. Legal Aspects of Education-----	2	-
Education 165. Pupil Personnel and Guidance-----	2	2
Electives chosen to round out the student's professional and general education, minimum of-----	12	12
Minimum total -----	30	24

RESIDENCE REQUIREMENT. One-half of the work for these credentials must have been taken at Humboldt State College, and at least 12 units in residence (not extension) here.

The special supervision credential may only be granted to holders of special secondary credentials in a given field. See the Registrar for requirements.

ORIENTATION

II. Orientation II (fall, spring)

1 unit

The student is helped to determine, early in his college career, whether or not he should pursue the teacher education curriculum. This is accomplished by acquainting the student with the various aspects of education as a profession, and providing many opportunities for observing elementary school children.

Two one-hour class periods per week plus special assignments.

III. Orientation III (fall, spring)

1-2 units

Opportunities are provided the student to keep in touch with children during the lower division years to help him reach a decision as to whether or not he desires to be a teacher. Observation and participation in classroom activities under the direction of a supervising teacher is the usual procedure.

Three hours per week per unit.

Prerequisite: Orientation II or consent of the instructor.

PSYCHOLOGY

Requirements for

Minor in Psychology

Lower division Psych. 1 and 2 or 33-----	6 units
Upper division-----	6 units
Total units required-----	12 units

PSYCHOLOGY

Lower Division

1. General Psychology (fall, spring) 3 units

An introduction to the study of human behavior, emphasizing the significance of maturation, learning, motivation, and individual differences as they evolve in personality.

Usually restricted to sophomores.

Three one-hour periods per week.

2. Applied Psychology (spring) 3 units

Survey of the areas in which the general principles of psychology are applied, such as medicine, law, advertising, salesmanship, religion, business and personal relations.

Prerequisite: Psychology 1.

Three one-hour periods per week.

***33. Psychology of Adjustment (spring) 3 units**

Mental hygiene and personality development particularly appropriate for college students. Foundations of behavior, adjustments to frustration, deviations from normal behavior, measurement of personality, and problems of personal adjustment will be investigated. Attempts will be made through group therapy to help students ameliorate some of their own personality difficulties.

Three one-hour periods per week.

40. Statistics 3 units

See Economics 40.

80. Reading-Study Service No credit

A basic course in the fundamentals of reading. Designed to permit students to increase both their rate and comprehension ability in reading. Students desiring to improve their reading ability or students planning to teach reading in the junior or senior high schools may benefit from this developmental reading program.

Four one-hour periods per week.

Upper Division

105. Social Psychology (fall) 3 units

The relationship between social organizations and the normative personality attributes of the members of society. The problems of society growing out of ethnic, racial, class, sex, and age differences are discussed.

Three one-hour periods per week.

113. Psychological and Social Foundations of Education 5 units

See Education 113.

153. Psychology of Personnel Management 3 units

See Business Administration 153.

199. Special Problems in Psychology 2-3 units

Prerequisite: At least six units upper division psychology.

Graduate Division

Prerequisite: Graduate standing and adequate preparation in psychology.

212. Psychology of Adolescence 2 units

A study of the physical, mental, social and emotional adjustment of the adolescent; ways of diagnosing personality development in relation to his educational and social needs; case method technique for investigating adolescent behavior.

Two one-hour periods per week.

* Not given in 1951-52.

The Division of Fine and Applied Arts

Art
Home Economics
Industrial Education

Music
Speech, Drama, and
Radio

Objectives

The objectives of the Division of Fine and Applied Arts are to provide:

1. An opportunity for the development of the powers and interests of the individual and a "general education" background in the field of the arts, especially for prospective teachers.
2. Curricula leading to :
 - a. General secondary credential with majors in art, music, language arts, and speech, enabling the student to teach in the secondary schools of the State.
 - b. The A.B. degree with special secondary credentials in art, home economics, music, and speech correction, allowing the holder to teach the special subject in the public schools of the State.
 - c. The A.B. degree with liberal arts majors in art, home economics, music, speech, and allied arts (a group major), for the student interested in further specialized work, or for personal or vocational objectives.
 - d. A.B. degree with junior high school majors in art, home economics, industrial education, music, speech (including drama and radio).
3. Minors in art, home economics, industrial education, music, speech, drama, and radio.
4. Terminal courses in drafting and photography, which are vocational in character.
5. Courses for preprofessional students including partial fulfillment of the requirements for the special secondary credential in industrial education.

REQUIREMENTS FOR THE A.B. DEGREE IN ALLIED ARTS

This curriculum is a group major, developed through the cooperation of the entire division of fine and applied arts to provide a flexible pattern for a broadly cultural program that will contribute toward the intelligent enrichment of everyday life.

Lower Division

English 1A and Speech 1	6 units
Health and Hygiene 1	2 units
Literature, philosophy or the arts	6 units
(Fine and applied arts not to exceed three of the six)	
Natural sciences (see page 39)	9 units
Physical activities	2 units
Psychology 1	3 units
Social sciences (page 39)	9 units
(Including fulfillment of United States history and Constitution requirement)	
Restricted electives (see page 39)	8 units
Lower division prerequisites in the three fields of the student's choice for major emphasis.	

Upper Division

Thirty-six units in three fields with not less than six nor more than 18 in any one field. Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page 39).

Minimum upper division required.....	40 units
Total units required.....	124 units

Scholarship requirement: "C" average in the major in addition to the requirement of a "C" average in all work undertaken.

ART

<i>Requirements for the A.B. Degree With Major in Art</i>	<i>Liberal Arts *</i>		
	<i>General Secondary Credential</i>	<i>Special Secondary Credential</i>	<i>(Without a Teaching Credential)</i>
Lower Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Major:			
Art 2—Art History and Appreciation.....	3	3	3
Art 10—Design	3	3	3
Art 20A—Fundamentals of Drawing <i>or</i> 21A—Figure Drawing	3	3	3
Art 25—Color	3	3	3
Art 27A—Water Color Painting <i>or</i> 28A—Oil Painting	3	3	3
Art 40 <i>or</i> 41—Crafts.....	3	3	3
Art 45—Lettering	3	3	3
General Education: (To be fulfilled in addition to all requirements for the major)			
Engl. 1A—First-year Reading and Composition	3	3	3
H.H. 1—Personal Health and Safety.....	2	2	2
Literature, Philosophy or Arts..... (Fine and applied arts not to exceed three of the six)	6	6	6
Natural Science	9	9	9
(Including one physical and one biological science)			
Physical Education activities.....	2	2	2
Psych. 1—General Psychology.....	3	3	3
Social Sciences (See page 133)..... (Including fulfillment of requirement in United States history and Constitution. See page 50.)	9	9	9
Spch. 1—Fundamentals of Speech.....	3	3	3
Restricted Electives	8	8	8
(Chosen from the above General Education fields or from mathematics, family life educa- tion, or not more than six units of foreign language.)			
Other Requirements:			
Orientation II	1	1	—
Completion of lower division requirements for a minor	6-20 †	—	—

* The student who expects to transfer to another institution for upper division work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† See pages 67-68. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in art, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

Upper Division

Requirements for the A.B. Degree With Major in Art	Liberal Arts *		
	General Secondary Credential	Special Secondary Credential	(Without a Teaching Credential)
Major:	Units	Units	Units
Art 103—Advanced Appreciation -----	3	3	3
Upper Division Art Electives -----	3	3	15
‡ Art 120—Advanced Drawing or			
Art 121—Advanced Figure Drawing -----	3	3	—
Art 123—Advanced Landscape Drawing -----	3	3	—
‡ Art 127—Advanced Water Color or			
Art 128—Advanced Oil Painting -----	3	3	—
‡ Art 140—Advanced Crafts or			
Art 141—Advanced Crafts -----	3	3	—
Other Requirements:			
Educ. 113—Psychological and Social Founda- tions of Education -----	5	5	—
Educ. 153—Audio-Visual Education -----	2	2	—
Educ. 175—Core Course in Secondary Educa- tion -----	5	5	—
Educ. 190A—Elementary School Art -----	—	2	—
Educ. 195A—The Teaching of Art -----	2	2	—
Educ. 320C—Directed Teaching—Elementary School Art -----	—	2	—
Educ. 340A—Directed Teaching—Secondary School Art -----	—	3	—
Completion of upper division art requirements for a minor -----	0-6 †	†	†
Electives to total -----	124	124	124
Total upper division required -----	40	40	40
Scholarship Requirements			
In all work taken -----	1.00	1.00	1.00
In major -----	1.00	1.00	1.00
In minor -----	1.00	—	1.00
In each education course taken -----	1.00	1.00	
For admission to Graduate Division :			
In major -----	1.5		
In all upper division work taken -----	1.5		
Graduate Year (General Secondary Only)			
Graduate course in art -----	3		
Educ. 265—Guidance in Education -----	2		
Educ. 275—Seminar in Secondary Education	2		
Educ. 340A-340B—Directed Teaching in the Secondary School -----	6		
Elective in secondary subject field -----	3		
Major, minor, or electives (upper division or graduate courses) to total -----	30		
Scholarship requirement (all work in graduate year) -----	1.75		

* The student who expects to transfer to another institution for upper division work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† See pages 67-68. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in art, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

‡ The student must study in the area not covered in his lower division course. For example, if he has taken Art 20A in the lower division, he should take Art 121 in the upper division.

TWO-YEAR TERMINAL CURRICULUM IN PHOTOGRAPHY

RECOMMENDED SEQUENCE

Freshman Year		Sem. 1	Sem. 2
Art 1 (Art Structure)-----		2	—
Art 10 (Design)-----		—	3
Art 45 (Lettering)-----		3	—
Art 50 (Elementary Photography)-----		—	2
Chemistry 1A (General College Chemistry)-----		5	—
English 1A-1B (First-year Reading and Composition)-----		3	3
Health & Hygiene 1 (Personal Health and Safety)-----		—	2
Social Science-----		3	3
P. E. (Activities)-----		$\frac{1}{2}$	$\frac{1}{2}$
Elective-----		—	2
		<u>16$\frac{1}{2}$</u>	<u>15$\frac{1}{2}$</u>
Sophomore Year		Sem. 1	Sem. 2
Art 2 (Art History)-----		3	—
Art 51 (Advanced Photography)-----		2 or 3	—
B.A. 2A (Typewriting)-----		—	2
B.A. 14A (Accounting)-----		3	—
Jr. 29 (Press Photography)-----		1	—
P. E. (Activities)-----		$\frac{1}{2}$	$\frac{1}{2}$
Physics 2A-2B (General Physics Lectures)-----		3	3
History 70 (United States History)-----		2	—
Pol. Sci. 51 (American Constitutional Government)-----		—	2
Psychology 1 (General Psychology)-----		—	3
Speech 1 (Fundamentals of Speech)-----		—	3
Speech 25 (Dramatic Workshop—Lighting)-----		—	2
		<u>14$\frac{1}{2}$</u>	<u>15$\frac{1}{2}$</u>

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
12 units of lower division art	6 units of lower division art	Drawing or painting— 3 units
12 units of upper division art (To be selected in consultation with the instructor)	6 units of upper division art	Plus courses approved by the art faculty— 18 units (At least 6 units must be in upper division)
Total units required 24 units	12 units	21 units

Additional requirements for the junior high school credential are given in detail on pages 52-53.

A liberal arts group major which includes art may be arranged in consultation with the student's adviser and the Registrar's office. See page 154.

DESCRIPTION OF COURSES

Lower Division

1. Art Structure

2 units

With specific exploratory problems in the visual arts, this course is designed primarily for elementary credential candidates. Art majors are not eligible.

Two one-hour periods per week.

2. Art History and Appreciation**3 units**

A historical study of the development of art from prehistorical times to the Renaissance.

Three one-hour periods per week.

3. Art Appreciation**3 units**

See Art 103.

10. Design**3 units**

A study of the elements of design and their applications to the commercial and fine art fields.

Three one-hour periods per week.

20A-20B. Fundamentals of Drawing**3-3 units**

Training in the fundamentals of drawing: form, space, organization and composition. Stress is placed on various drawing materials and techniques.

Two two-hour periods per week.

21A-21B. Figure Drawing**3-3 units**

The study of form and composition from the human figure.

Two two-hour periods per week.

22. Nature Drawing**1 unit**

Precision drawing in varied media from objects in nature. Adapted to the needs of botany, premedical and other science students.

One two-hour period per week.

23A-23B. Landscape Drawing**3-3 units**

The study of form and composition from landscape, including a study of perspective.

Two two-hour periods per week.

25. Color**3 units**

An analysis and use of the phenomena of pigmentary colors. This course is designed to prepare the student for further work in painting, design, interior decoration, and dress design.

Two two-hour periods per week.

27A-27B. Water-color Painting**3-3 units**

The study of water color painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.

Three two-hour periods per week.

28A-28B. Oil Painting**3-3 units**

The study of oil painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.

Three two-hour periods per week.

† 30. Art Anatomy**3 units**

Analysis of the skeletal and muscular structure of the human figure in terms of action, form, and methods of representation with a view to preparing the student for advanced drawing, painting, and sculpture.

Three one-hour periods per week.

† 32. Sculpture**3 units**

The study of sculpture and methods through practical experiments by means of simple sculpture problems. Work will be executed in wood, cement, clay, plaster, and other materials.

Prerequisite: Any two of the following: Art 10, 20, 21, 23, 25, 27, 28, or 30.

† Given if sufficient demand.

40. Crafts (fall) **3 units**
 Introduction to craft methods through problems in leather, book binding, and other projects. Course content is adapted to the needs of the class.
 Two two-hour periods per week.

41. Crafts (spring) **3 units**
 Introduction to craft media and methods through problems in block printing, silk screen, and stencilling.
 Prerequisite: Any one of the following courses: Art 10, 20, 21, 23, 25, 27, 28, or 45.
 Two two-hour periods per week.

45. Lettering **3 units**
 Practice in the use of lettering tools, the study of basic alphabets, and an introduction to the principles of advertising layout.
 Three one-hour periods per week.

50. Elementary Photography (spring) **3 units**
 Lectures on the optical principles, the chemistry of printing and developing, the technique of exposure. Laboratory work includes practice in dark-room techniques.
 One one-hour lecture and one three-hour laboratory period per week.

51. Advanced Photography (spring) **2 or 3 units**
 Qualified students undertake work along various specialized lines.
 Prerequisite: Art 50 and consent of the instructor.
 Hours to be arranged.

Upper Division

103. Advanced Appreciation **3 units**
 A course in art appreciation beginning in the 18th Century and extending into contemporary times. The space arts are correlated with the other arts by means of listening periods (recordings), slide lectures, and related reading. Students who are not majoring in art may take the course without its prerequisites, either as Art 3 or as Art 103.

Three one-hour periods per week.

† 110. Advanced Design **3 units**
 An advanced study of the elements of design, including problems applied to pottery, textile design, painting, etc.
 Prerequisite: Art 10.
 Three one-hour periods per week.

120A-120B. Advanced Drawing **3-3 units**
 Continuation of the study of form and composition in still life, figure, and landscape.
 Prerequisite: Any one of the following courses: Art 20, 21, 22, 23.
 Two two-hour periods per week.

121A-121B. Advanced Figure Drawing **3-3 units**
 Continuation of the study of figure construction.
 Prerequisite: Any one of the following courses: Art 20, 21, 22, 23.
 Two two-hour periods per week.

122. Advanced Nature Drawing **1 unit**
 An advanced study of nature drawing.
 Prerequisite: Consent of the instructor.
 One two-hour period per week.

123A-123B. Advanced Landscape Drawing **3-3 units**
 Continuation of the study of landscape composition.
 Prerequisite: Any one of the following courses: Art 20, 21, 22, 23.
 Two two-hour periods per week.

† Given if sufficient demand.

- 127A-127B. Advanced Water-color** **3-3 units**
 Advanced water color painting including problems in still-life, landscape, and figure.
 Prerequisite: Art 27 or 28.
 Two two-hour periods per week.
- 128A-128B. Advanced Oil Painting** **3-3 units**
 Advanced oil painting including problems in still-life, landscape, and figure.
 Prerequisite: Art 27 or 28.
 Two two-hour periods per week.
- † 132. Advanced Sculpture** **3 units**
 Prerequisite: Art 32 or consent of the instructor.
- 140. Advanced Crafts** **3 units**
 Prerequisites: Art 10 and 40.
- 141. Advanced Crafts** **3 units**
 Prerequisites: Art 10 and 41.
- 145. Advanced Lettering** **3 units**
 A study of techniques and methods used in showcard writing and fine lettering for reproduction. Course problems include layouts in color with illustrations.
 Prerequisites: Art 10, 20A or 21A, and 45.
- 148. Ceramics** **2 units**
 See I. E. 105.
- 180. Art Workshop** **1-3 units**
 Work along individual lines, with the consent of the instructor in the field.
 Three to nine hours per week.
- 190. Elementary School Art** **2 units**
 (See Education 190A).
 For prospective teachers. Theory and practice in the use of art in the elementary schools. Covers the philosophy of art, and practical exercises in its uses from kindergarten through junior high school. (Not applicable toward a minor in art.)
 Two one-hour periods per week in addition to activity periods.
- 195. The Teaching of Art (Secondary)** **2 units**
 (See Education 195A.)
- Graduate Division**
- 220. Drawing** **3 units**
 Advanced study of individual problems in various media, a study of form and composition in still-life, figure, and landscape.
- 227. Painting** **3 units**
 The student will work in the paint medium of his own choosing, under the supervision and criticism of the instructor.
- 240. Crafts** **3 units**
 Individual study of problems in various craft media.
- 245. Lettering** **3 units**
 Special problems in lettering layout and advertising design.
- 299. Special Problems in Art** **3 units**

† Given if sufficient demand.

HOME ECONOMICS

<i>Requirements for the A. B. degree with Major in Home Economics</i>	<i>General</i>		<i>Special</i>		<i>Liberal Arts *</i>
	<i>Secondary</i>	<i>Credential</i>	<i>Secondary</i>	<i>Credential</i>	<i>(without a teaching credential)</i>
Lower Division					
Major:	<i>Units</i>		<i>Units</i>		<i>Units</i>
H.E. 1A-1B—Clothing Construction-----	6		6		6
H.E. 7—Textiles Selection-----	2		2		—
H.E. 10A-10B—Food preparation-----	6		6		6
H.E. 20—General Nutrition-----	2		2		—
General Education: (To be fulfilled in addition to all requirements for the major)					
Art 1—Art Structure-----	2		2		—
Art 10—Design-----	3		3		—
Art 25—Color -----	3		3		—
Engl. 1A—First-year Reading and Composition-----	3		3		3
H.H. 1—Personal Health and Safety-----	2		2		2
H.H. 50—Home Nursing-----	2		2		—
Literature or Philosophy-----	3		3		6 ¹
Natural Sciences:					
Bact. 1—General Bacteriology-----	3		3		—
Chem. 2A-2B—Introduction to Chemistry-----	6		6		3
Electives in science (including one course in biological science)-----	—		—		6
Physical Education Activities-----	2		2		2
Psych. 1—General Psychology-----	3		3		3
Social Sciences-----	9		9		9
(Including fulfillment of requirement in United States history and Constitution. See page 50.)					
Spch. 1—Fundamentals of Speech-----	3		3		3
Restricted Electives-----	1		1		8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)					
Other Requirements:					
Or. II—Orientation II-----	1		1		—
Completion of lower division requirements for a minor -----	6-20†		†		†

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language and science. It is recommended that students who expect to do advanced work in the field of home economics should take Chemistry 1A and Chemistry 8, instead of Chemistry 2A-2B.

† See page 71. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in home economics, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

¹ May include three units in fine or applied arts.

Requirements for the A. B. degree with Major in Home Economics	General Secondary Credential	Special Secondary Credential	Liberal Arts * (without a teaching credential)
---	------------------------------------	------------------------------------	---

Upper Division			
Major:	Units	Units	Units
H.E. 101—Advanced Clothing and Design	3	3	—
H.E. 130—Home Management	3	3	—
H.E. 150—Child Care and Training	2	2	—
H.E. 160—The Family	3	3	—
Foods and Nutrition			
Chosen from:			
H.E. 111—Advanced Meal Planning and Serving	4	4	—
H.E. 120—Dietetics			
H.E. 125—Food Purchasing and Management			
H.E. 199—Special Problems in Foods or Nutrition			
Home Economics Electives (upper division)	9	12	18
Other Requirements:			
Education 113—Psychological and Social Founda- tions of Education	5	5	—
Educ. 153—Audio-Visual Education	2	2	—
Educ. 175—Core Course in Secondary Education	5	5	—
Educ. 195HE—The Teaching of Home Economics	2	2	—
Educ. 320C—Directed Teaching—Elementary School Home Economics	—	2	—
Educ. 340A—Directed Teaching—Secondary School Home Economics	—	3	—
I.E. 103—Art of House Design	3	3	—
Physiol. 101—Human Physiology	3	3	—
Completion of upper division requirements for a minor	0-6†	†	†
Electives to total	124	124	124
Total upper division required	40	40	40
Scholarship Requirements:			
In all work taken	1.00	1.00	1.00
In major	1.00	1.00	1.00
In minor	1.00	—	—
In each education course taken	1.00	1.00	—
For admission to Graduate Division:			
In major	1.5	—	—
In all upper division work taken	1.5	—	—

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language and science. It is recommended that students who expect to do advanced work in the field of home economics should take Chemistry 1A and Chemistry 8, instead of Chemistry 2A-2B.

† See page 71. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in home economics, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

Graduate Year (General Secondary Only)

	<i>Units</i>
Home Economics Elective (upper division or graduate)	3
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Elective in secondary subject field	3
Major, minor, or electives (upper division or graduate courses) to total	30
Scholarship requirement (all work taken in graduate year)	1.75

REQUIREMENTS FOR

<i>Junior High School Major in Home Economics</i>	<i>Minor in Home Economics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	A minimum of 20 units in courses approved by the home economics faculty.
H.E. 1A----- 3 units	H.E. 1A----- 3 units	
H.E. 7----- 2 units	H.E. 7----- 2 units	
H.E. 10A-10B_ 6 units	H.E. 11----- 2 units	
H.E. 11----- 2 units	H.E. 20----- 2 units	
H.E. 20----- 2 units	Upper Division	
Upper Division	9 units chosen from:	
12 units chosen from:	H.E. 101A___ 3 units	
H.E. 101A___ 3 units	H.E. 130___ 3 units	
H.E. 130___ 3 units	H.E. 140___ 3 units	
H.E. 140___ 3 units	H.E. 150___ 2 units	
H.E. 150___ 2 units	H.E. 160___ 3 units	
H.E. 160___ 3 units	H.E. 165___ 3 units	
H.E. 165___ 3 units	—	
Total units required -----27 units	18 units	20 units

Additional requirements for the junior high school credential are given in detail on pages 52-53.

A liberal arts group major which includes home economics may be arranged in consultation with the student's adviser and the Registrar's office. See page 154.

DESCRIPTION OF COURSES**Lower Division****1A-1B. Clothing Construction (year) 3-3 units**

First semester: Laboratory work directed towards the development of good technique in clothing construction processes; use of cotton, linen, and rayon fabrics in making garments.

Second semester: Continuation of the work of the first semester. Development of more difficult technique in construction, alteration, and designing of garments. Emphasis on use of woolen fabrics and on original design.

One one-hour lecture and two three-hour laboratory periods per week.
1A is not prerequisite to 1B.

3. The Bride (spring) 2 units

A survey of various areas in home economics. Designed to enrich family life. Open to all students except home economics majors.
Two one-hour lectures per week.

5. Home Crafts 2 units

The use of leisure time in designing and creating beautiful objects for the home. Instruction in art needlework and flower arrangements. This is an elective course with no prerequisites.

Two one-hour periods per week.

7. Textiles Selection**2 units**

Consumer problems in textile selection of clothing and household fabrics. Identification of the major and minor fibers; laboratory tests on fibers; scientific principles applied to the care and treatment of fabrics. Open to all.

Two one-hour periods per week.

10A-10B. Food Preparation (year)**3-3 units**

First semester: The composition and preparation of foods; food experiments; analysis of recipes and cookery processes and their application to meal preparation.

Second semester: Continuation of the work of the first semester. Emphasis on the planning, marketing, preparing, and serving of meals.

Prerequisite: Chemistry 2A (may be taken concurrently) or, consent of the instructor.

Two one-hour lectures and two two-hour laboratory periods per week.

11. Meal Planning and Serving**2 units**

Meal planning, preparation and serving of all three daily meals. Special appointments for various occasions, including an appreciation for acceptable etiquette and table decorations. Emphasis on relative costs and nutritive values, and on time and energy conservation.

One one-hour lecture and one three-hour laboratory period per week.

15. Feeding the Family (fall)**2 units**

Feeding of infants and children through the period of growth. Planning well-balanced meals at different income levels. Actual preparation of meals. Open to all students.

Two one-hour periods per week.

20. General Nutrition**2-3 units**

A study of nutrition with emphasis on human requirements, best selection of foods for individuals and families, and economy meals. Practice in food preparation and menu planning.

Pre-nursing students are required to include the laboratory work.

Two one-hour periods per week, plus an optional three-hour laboratory period.

Upper Division**101. Advanced Clothing and Design****3 units**

Advanced garment construction to acquire skills and time-saving techniques. For majors and minors in home economics.

One one-hour lecture and two three-hour laboratory periods per week.

Prerequisite: H.E. 1A-1B.

111. Advanced Meal Planning and Serving**2 units**

One one-hour lecture and one three-hour laboratory period per week.

Prerequisite: Upper division standing and consent of instructor. Students who have had Home Economics 11 are not eligible to enroll in this course.

120. Dietetics**3 units**

The fundamentals of human nutrition and the nutritive properties of foods with application to the feeding of individuals and special groups; dietaries on limited incomes. Introductory problems in diet therapy.

Prerequisite: H.E. 10A-10B and 20.

Two one-hour lectures and one three-hour laboratory period per week.

125. Food Purchasing and Management (spring)**3 units**

A study of standards, grades, and qualities of food products. Cost comparisons. Responsibility in all phases of meal management.

Prerequisites: H.E. 10A-10B and 20.

Two one-hour lectures and one three-hour laboratory period per week.

- 130. Home Management** 3 units
 The evaluation of time, energy, and money in performing routine tasks in the care of the family, meals, laundry, services, special cleaning, entertaining and working for satisfaction in attaining a relative set of values in homemaking.
 Three one-hour periods per week, supplemented by actual home living practices.
- 140. Home Furnishings** 3 units
 The house, its furnishings, equipment, interior decoration and arrangement, to satisfy varied family needs and interests.
 Prerequisite: Art 1 and 10; Industrial Education 103 strongly recommended.
 Three one-hour periods per week.
- 150. Child Care and Training** 2 units
 Observation and participation in the care and training of the pre-school child. Emphasis upon the establishing of desirable physical, mental, social, and emotional behavior of children as individuals and in groups.
- 160. The Family** 3 units
 See Sociology 160.
- 165. Consumer Buying** 3 units
 Special problems in personal and family finances involving the evaluation of home production and consumption of goods and services; expenditures for essentials and luxuries as related to desired goals of health, ambition, and a satisfactory standard of happy home life.
 Three one-hour periods per week.
- 199. Special Problems in Home Economics** 1-3 units
 A flexible arrangement designed to meet the individual needs and interests of the major of upper division standing. Each person must have approval of the home economics staff.

INDUSTRIAL EDUCATION

<i>Suggested Program for</i>	<i>Pre-special * secondary credential</i>	<i>Two-year program in drafting</i>
	<i>Units</i>	<i>Units</i>
Lower Division		
Art 1—Art Structure	2	-
Art 2—Art History and Appreciation	-	3
Art 10—Design	3	3
Art 20A—Fundamentals of Drawing or 21A—Drawing and Composition	-	3
Art 45—Lettering	3	3
Art 50—Elementary Photography	3	-
Engl. 1A—First-year Reading and Composition	3	3
Engr. 1A-1B—Plane Surveying	-	6
Engr. 22—Engineering Drawing	2	2
Engr. 23—Descriptive Geometry	-	2
Engr. 24—Advanced Engineering Drawing	-	2
Engr. 40—Engineering Metallurgy	3	-
H.H. 1—Personal Health and Safety	2	-
I.E. 5—Pottery	3	-
I.E. 6—Cement and Concrete Work	2	-
I.E. 7A—Mechanical Drawing	2	2
I.E. 12—Metal Arts	3	-
I.E. 13—Architectural Drafting	-	2-3
I.E. 50—Introduction to Radio	3	-
I.E. 51—Fundamentals of Industrial Education	3	-
Math. C—Trigonometry	-	3
Math. D—Intermediate Algebra	-	3
Chem. 1A—General College Chemistry	5	-
Phys. 2A-2B—General Physics	-	6
Nat. Sci.—Electives	7	-
P.E. Activities (including P.E. 5)	2	2
Psych. 1—General Psychology	3	3
Hist. 70—History of the United States	2	2
Pol. Sci. 51—American Constitutional Government	2	2
Soc. Sci. Electives	5	-
Speech 1—Fundamentals of Speech	3	-
Electives	-	2
Upper Division		
Educ. 113—Psychological and Social Foundations of Educa- tion	5	-
Educ. 115—Measurement in Education	2	-
Educ. 175—Core Course in Secondary Education	5	-
I.E. 101—Advanced Woodworking	3	-
I.E. 123—Pattern Making and Theory of Foundry Practice	3	-

* From two to three years' work for this credential may be taken in this College; the remainder of the program must be taken in an institution authorized to issue this credential. The student should consult the specific requirements of the institution to which he expects to transfer. From one and one-half to two years would probably be required in the terminal institution to complete the requirements for this credential.

REQUIREMENTS FOR
Junior High School Major in Industrial Education

Lower Division	Ind. Educ. 7A-----	2 units
	Ind. Educ. 51 ¹ -----	3 units
	Additional Lower Division	
	Ind. Educ.-----	7 units
Upper Division	Ind. Educ. 101-----	3 units
	Ind. Educ. 130-----	2 units
	Additional Upper Division	
	Ind. Educ.-----	7 units
Total units required		24 units

Additional requirements for the junior high school credential are given in detail on pages 52-53.

A liberal arts group major which includes industrial education may be arranged in consultation with the student's adviser and the Registrar's office. See page 154.

<i>Minors in Industrial Education</i>			<i>Junior High School and Secondary</i>
<i>General Elementary</i>			
Lower Division----	Ind. Educ. 15 or 51 ¹ ----	3 units	A minimum of 20 units in courses approved by the instructor.
	Electives (may include Art 40 or 41)-----	3 units	
Upper Division----	Ind. Educ. 190		
	(men only) -----	2 units	
	Electives -----	4-6 units	
Total units required	12 units		20 units

¹ Industrial Education 51 will be waived as a subject requirement for students who have had two years of high school manual training.

DESCRIPTION OF COURSES

Lower Division

5. Pottery (fall) 2-3 units
A course in an interesting and age-old industry. Designing, casting, throwing, modeling, glazing, and firing.
Two or three three-hour periods per week.
- †6. Cement and Concrete Work (spring) 2 units
Theory and practical application of concrete work, including ornamental cement.
Two three-hour periods per week.
- 7A. Mechanical Drawing (fall, spring) 2 units
A fundamental course in mechanical drawing which covers orthographic, isometric, and cabinet projections, intersection of solids, sections, screws and threads, cams, blue prints, etc.
Three two-hour periods per week.
9. Stone Polishing and Plastics (spring) 2-3 units
In this course an age old art is united with a very modern one. Stone cutting has been practiced for many years; plastic is very modern, but has many possibilities. The combination of the two subjects makes an interesting study.
Two or three three-hour periods per week.
- †12. Metal Arts (spring) 3 units
The application and use of various metals. Hammering of copper, grinding of stones, casting, silver plating, soldering, enameling.
Three three-hour periods per week.

† Given if sufficient demand.

13. Architectural Drafting (spring)**2-3 units**

A beginning course in the fundamentals of house design. Floor plans, elevations, perspective drafting, and architectural detail. A course in mechanical drawing either in high school or college is advisable as background.

Two or three three-hour periods per week.

15. Crafts in the Elementary Schools (fall, spring)**3 units**

A course in the use of native materials and waste products applicable to the elementary grades. Magazine binding, waste-basket making, weaving, toy making, and pottery are some of the kinds of work done.

Three one-hour class periods and six hours of outside work per week.

16. Toycraft**2-3 units**

This course is planned for those students who are interested in child life and the many ingenious toys that it is possible to make for children.

Two or three three-hour periods per week.

50. Introduction to Radio (fall)**3 units**

Sound and radio waves. Theory and operation of oscillators, amplifiers, rectifiers, frequency meters, vacuum tubes, cathode ray oscilloscopes, and continuous wave radiation equipment. Laboratory work in circuit design, testing, and operation.

One lecture and two three-hour laboratory periods per week.

51. Fundamentals of Industrial Education (fall, spring)**3 units**

The fundamentals of industrial education in terms of teaching industrial arts in the elementary grades. Covers methods, courses of study, construction of objects of the elementary grades level, and care and use of equipment.

Three three-hour periods per week.

Upper Division**101. Advanced Woodworking (spring)****2-3 units**

Building of boats, airplane gliders, and large pieces of similar nature.

Prerequisite: Industrial Education 51 or its equivalent.

Two or three three-hour periods per week.

103. The Art of House Design (fall)**2-3 units**

A thorough-going study of home planning and building in which an entire house is planned in structure and furnishings.

Prerequisite: Industrial Education 13.

Two or three three-hour periods per week.

105. Advanced Pottery (fall)**2 units**

Study of the problems involved in pottery making, from the standpoint of both teaching and business. Designing, decorating, throwing, packing, firing of the kiln are a few of the subjects studied.

Prerequisite: Industrial Education 5.

Two three-hour periods per week.

106. Glaze Composition and Research**3 units**

A study of the composition of glazes used in ceramics. Students will conduct research in the compounding and making of new glazes in relation to the various clays used in pottery making.

Prerequisite: Industrial Education 105.

Two three-hour periods per week.

107. Advanced Mechanical Drawing (spring)**2 units**

See Engineering 24. Upper division students may receive upper division credit by doing an additional problem.

- †112. **Advanced Metal Arts** (spring) 2-3 units
 An advanced study of the work offered in Industrial Education 12. Practice in the use of pewter, aluminum, silver, bronze, and other metals.
 Prerequisite: Industrial Education 12.
 Two or three three-hour periods per week.
- †113. **Machine Shop** 3-3 units
 See Engineering 40-41.
- †114. **Sheet Metal** 3 units
 Sheet metal pattern drafting and layout. Instruction in the fundamental hand and machine tool operations involved in sheet metal work.
 Prerequisite: Industrial Education 7A.
 One lecture and two three-hour periods per week.
- †123. **Pattern-Making and the Theory of Foundry Practice** (fall) 3 units
 The basic principles of foundry practice and pattern-making. The construction of simple patterns, and casting in softer metals.
 Prerequisite: Industrial Education 51 or its equivalent.
 Three three-hour periods per week.
- †124. **Advanced Cabinet and Other Wood Construction** (fall) 2-3 units
 Advanced course in woodworking designed for students interested in teaching or in problems of advanced construction.
 Prerequisite: Industrial Education 101.
 Two or three three-hour periods per week.
- †125. **Carpentry** (spring) 3 units
 House construction in which houses in miniature are built to illustrate construction problems. Recommended as a suitable course to follow Industrial Education 103.
 Prerequisite: Industrial Education 51 or its equivalent.
 Three three-hour periods per week.
- †130. **Industrial Arts Design** (spring) 2 units
 Theory and practice in the designing of objects in the industrial arts and their decoration.
 Prerequisite: Industrial Education 7A.
 Two one-hour lecture and two two-hour laboratory periods per week.
150. **Radio** 3 units
 See Industrial Education 50.
- †190. **Management of School Shops** (spring) 2 units
 The objectives, methods, and content of shop programs for the grade schools. Intended for students majoring in Industrial Education.
 Prerequisite: Industrial Education 51 and upper division status.
 Two one-hour periods per week.

† Given if sufficient demand.

MUSIC

Requirements for the A.B. Degree With Major in Music

<i>Requirements for the A.B. Degree With Major in Music</i>	<i>General</i>	<i>Special</i>	<i>Liberal Arts *</i>
	<i>Secondary Credential</i>	<i>Secondary Credential</i>	<i>(Without a teaching Credential)</i>
Lower Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Major:			
Mus. 1—Music Survey	2	2	2
Mus. 11A-11B—Ear Training and Sight Singing	4	4	4
Mus. 11C—Ear Training and Sight Singing	2	2	—
Mus. 20A-20B—Harmony	6	6	6
Applied Music	4	4	2
Music Activities	2	2	—
Mus. 41—Instrumental Conducting	2	2	—
Mus. 46—Choral Conducting	2	2	—
Mus. 71—Strings and Percussion	2	2	—
Mus. 72—Brasses and Woodwinds	2	2	—
General Education: (To be fulfilled in addition to all requirements for the major)			
Engl. 1A—First-year Reading and Com- position	3	3	3
H.H. 1—Personal Health and Safety	2	2	2
Literature, Philosophy or Arts	6	6	6
(Fine and applied arts not to exceed three of the six)			
Natural Science	9	9	9
(Including one physical and one biological science)			
Physical Education Activities	2	2	2
Psych. 1—General Psychology	3	3	3
Social Sciences (see page 133)	9	9	9
(Including fulfillment of requirement in United States history and Constitution. See page 50)			
Restricted Electives	8	8	8
(Chosen from the above General Education fields or from mathematics, family life edu- cation, or not more than six units of foreign language)			
Other Requirements:			
Or. II—Orientation II	1	1	—
Completion of lower division requirements for a minor	6-20 †	†	†

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† See page 80. Part of the work required for a teaching minor may be completed in the graduate year. While a major is not required for either the special secondary credential or the liberal arts major in music, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

Requirements for the A.B. Degree With Major in Music	General	Special	Liberal Arts
	Secondary Credential	Secondary Credential	(Without a teaching Credential)
Upper Division			
Major:	Units	Units	Units
Mus. 101-102—Music History -----	4	4	4
Mus. 120A—Advanced Harmony -----	3	3	3
Mus. 123—Counterpoint -----	3	3	3
Mus. 124—Form and Analysis -----	2	2	2
Mus. 125—Composition -----	2	2	2
Mus. 131—Instrumental Arranging -----	2	2	--
Applied Music -----	4	4	4
Music Activities -----	2	2	--
Electives—Upper Division Music -----	--	--	10
Other Requirements:			
Educ. 113—Psychological and Social Foundations of Education -----	5	5	--
Educ. 153—Audio-Visual Education -----	2	2	--
Educ. 175—Core Course in Secondary Education -----	5	5	--
Educ. 190M—Elementary School Music -----	--	2	--
Educ. 195M—The Teaching of Music -----	2	2	--
Educ. 320C—Directed Teaching— Elementary School Music -----	--	2	--
Educ. 340A—Directed Teaching— Secondary School Music -----	--	3	--
Completion of upper division requirements for a minor -----	0-6 †	†	†
Electives to total -----	124	124	124
Total upper division required -----	40	40	40
Scholarship Requirements:			
In all work taken -----	1.00	1.00	1.00
In major -----	1.00	1.00	1.00
In minor -----	1.00	--	--
In each education course taken -----	1.00	1.00	--
For admission to Graduate Division:			
In major -----	1.5		
In all upper division work taken -----	1.5		
Graduate Year (General Secondary Credential Only)			
Music 299—Seminar in Music Problems -----			3
Educ. 265—Guidance in Education -----			2
Educ. 275—Seminar in Secondary Education -----			2
Educ. 340A-340B—Directed Teaching in the Secondary School -----			6
Elective in secondary subject field -----			3
Major or minor or electives (upper division or graduate courses) to total at least -----			30
Scholarship requirement (all work in graduate year) -----			1.75

† See page 80. Part of the work required for a teaching minor may be completed in the graduate year. While a major is not required for either the special secondary credential or the liberal arts major in music, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

PERFORMANCE TESTS

In addition to the subject and scholarship requirements listed above, the State Department of Education has prescribed the following standards of performance which must be met by candidates for the general and the special secondary credentials:

- I. **PIANO:** Ability to play a Bach two-part invention, an artistic accompaniment, and four-part hymns at sight.
- II. **VOICE:** Ability to sing at least one song representative of each of the following periods of vocal literature:

Classical period
Romantic period
Modern period

Ability to sing at sight any part of a four-part hymn.

- III. **CONDUCTING:** Ability to train changed and unchanged voices; to conduct an open four-part score; to tune, adjust, and demonstrate the fingering of any instrument of the orchestra; to play the major scale of the instrument one octave on at least one representative instrument of each section of the orchestra; and to conduct from an orchestral score.

REQUIREMENTS FOR

<i>Junior High School Major in Music</i>	<i>Minor in Music</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	Lower Division
Music 1A ----- 2 units	Music 1A ----- 2 units	Music 3-4 ----- 6 units
Music 11A-11B 4 units	Music 10 ----- 3 units	Music 10 ----- 3 units
Music 20A-20B 6 units	Music activities 3 units	Music 46 ----- 2 units
Music 41 ----- 2 units		Music 60 or 65 1 unit
Music 46 ----- 2 units		Applied music_ 2 units
Music 71-72 -- 4 units		
Applied Music _ 2 units		
Upper Division	Upper Division	Upper Division
Music 101-102 _ 4 units	Music activities 2 units	Electives ap-
Music 190 ---- 2 units	Electives ap-	proved by
Music activities 3 units	proved by	music faculty 6 units
Applied music _ 3 units	music faculty 4 units	
Total units required --- 34 units	14 units	20 units

A liberal arts group major which includes music may be arranged in consultation with the student's adviser and the Registrar's office. See page 154.

Additional requirements for the junior high school credential are given in details on pages 52-53.

DESCRIPTION OF COURSES

Lower Division

- 1. Music Survey (fall)** **2 units**
An introductory survey of the history of music designed chiefly to orient the beginning music student in his field of study.
Two one-hour periods per week.
- 3-4. Music Appreciation (year)** **3-3 units**
Music history and appreciation designed for students who are not majoring in music, but wish to know more about music as a part of their general education. Music correlated with the other arts through lectures and recordings.
Three one-hour periods per week.
- 10. Musicianship (fall, spring)** **3 units**
Elementary work in ear training, sight singing, and piano keyboard; designed to give the rudiments of music in a direct and concise manner.
Required for all students working toward a teaching credential. Music majors not eligible.
Three one-hour periods per week.
- 11A. Ear Training and Sight Singing (spring)** **2 units**
Designed to give a thorough knowledge of music fundamentals (notation, intervals, triads, modes, chord structure and simple musical forms) with training in sight singing and dictation.
Two one-hour periods per week.
- 11B-11C. Ear Training and Sight Singing (year)** **2-2 units**
Continuation of Music 11A with advanced harmonic, melodic and rhythmic training.
Prerequisite: Music 11A.
Two one-hour periods per week.
- 20A-20B. Harmony (year)** **3-3 units**
Harmonization of melodies; scales, intervals, triads, the dominant seventh, non-harmonic tones, simple modulations, secondary seventh chords; keyboard harmony.
Three one-hour periods per week.
- 41. Instrumental Conducting (spring)** **2 units**
Baton and rehearsal technique; the problems associated with various kinds of instrumental organizations; program building; principles of interpretation.
Two one-hour periods per week.
- 46. Choral Conducting (fall)** **2 units**
Same as Music 41 but applied to choral singing.
Two one-hour periods per week.
- 70A-70B. Piano (fall, spring)** **1-1 unit**
Class instruction open to any student who has a desire to learn to play the piano. No preliminary knowledge of piano is needed.
One one-hour period per week, with outside practice required.
- 70C-70D. Intermediate Piano (fall, spring)** **1-1 unit**
Class instruction open to any student who has had the equivalent of Music 70A-B.
One one-hour period per week, with outside practice required.
- 71. Strings and Percussion (spring)** **1-2 units**
Violin, viola, cello, string bass. Study and practice of one or more of the stringed instruments supplemented by a study of arranging for stringed instruments and teaching methods. A portion of the semester will be spent in a study of the percussion instruments and their technics.
Two one-hour periods per week.

- 72. Brasses and Woodwinds (fall) 1-2 units**
 The playing and teaching of brass and woodwind instruments; problems of tone production, articulation, technic; also additional theoretical study including scoring, transposition and physics of sound.
 Two one-hour periods per week.
- 75A-75B. Beginning Violin (fall, spring) 1-1 unit**
 Class instruction open to any student who has a desire to learn to play the violin.
 Prerequisite: Music 71 or equivalent.
 One one-hour period per week, with outside practice required.
- 75C-75D. Intermediate Violin (fall, spring) 1-1 unit**
 Class instruction in violin open to any student who has had the equivalent of Music 75B.
 One one-hour period per week, with outside practice required.
- 76A-76B. Voice (fall, spring) 1-1 unit**
 Elementary class instruction in voice, designed to help students improve tone quality and musicianship of their singing.
 One one-hour period per week, with outside practice required.
- 76C-76D. Intermediate Voice (fall, spring) 1-1 unit**
 Class instruction open to any student who has had the equivalent of Music 76A-76B.
 One one-hour period per week, with outside practice required.

Upper Division

- 101-102. Music History (year) 3-3 units**
 A chronological study of vocal and instrumental music from plainsong through modern music. Lectures integrating the history of music with other arts and general thought of the time. Music presented through recordings.
 Three one-hour periods per week.
- 120A. Advanced Harmony (fall) 3 units**
 Essentials of advanced harmony embracing chromatic alteration, modulation by means of altered chords, use of all nonharmonic tones and keyboard work.
 Prerequisite: Music 20A-20B.
 Three one-hour periods per week.
- 123. Counterpoint (spring) 3 units**
 Strict counterpoint in all species; two-, three-, and four-part writing.
 Prerequisite: Music 120A.
 Three one-hour periods per week.
- 124. Form and Analysis (fall) 2 units**
 Review of simple part-forms and study of complex forms with analysis based on the principles of repetition and contrast.
 Prerequisite: Music 123.
 Two one-hour periods per week.
- 125. Composition (fall) 2 units**
 The simple and more developed binary and ternary song forms for piano, voice, and small ensemble.
 Prerequisite: Music 123.
 Two one-hour periods per week.
- 131. Instrumental Arranging (spring) 2 units**
 A practical course in arranging music for various combinations of instruments, with special reference to school orchestras. To be taken in senior year.
 Prerequisite: Music 70, and consent of the instructor.
 Two one-hour periods per week.

- 170. Advanced Piano** (fall, spring) **1-1 unit**
Class instruction open to any student who has had the equivalent of Music

70C-70D.

One one-hour period per week, with outside practice required.

- 176. Advanced Voice** (fall, spring) **1-1 unit**
Class instruction open to any student who has had the equivalent of Music

76C-76D.

One one-hour period per week, with outside practice required.

- 190. Elementary Music Education** (fall) **2 units**
(See Education 190M.)

Survey of the field of public school music and practical devices for teaching music in the public school from the first grade through the junior high grades. Covers the philosophy of music and practical devices for teaching such phases as rhythm, singing, creative expression, music-listening, and playing of simple instruments.

Prerequisite: Music 10 or equivalent, and one year of chorus or A Cappella Choir. The equivalent of Music 70B is strongly recommended.

- 195. The Teaching of Secondary School Music** (spring) **2 units**
(See Education 195M.)

The objectives, methods, and materials for the choral, instrumental, and general music teacher on the secondary level. A review of conducting, accompanying, and other applied music as related to the teaching of specific materials. Observation and demonstrations.

Two one-hour periods per week.

- 199. Special Problems in Music** **2-3 units**

Research in one of the more specialized aspects of music which might include, among others, the evolution and development of forms, theoretical systems, contemporary idioms, evaluation and comparison of textbooks, recent trends in the teaching of elementary and secondary school music.

Prerequisite: Consent of the instructor.

Two or three one-hour periods per week.

Graduate Division

- 299. Seminar in Music Problems** **3 units**

Research in special problems of music, the field of investigation in each instance subject to preparation and special interests of the individual student.

Three one-hour periods per week.

Musical Organizations

- 50-150. Orchestra** (fall, spring) **1 unit**

Affords qualified students an opportunity for study of good orchestral composition and for learning to play with interpretation, finish, and precision. Outside practice necessary.

Prerequisite to Music 150: Consent of instructor on basis of auditions.

Two two-hour periods per week.

- 51-151. Band** (fall, spring) **1 unit**

Training for modern professional playing in both the traditional and modern idioms. This organization provides music for athletic events, assemblies, and other campus activities and offers opportunities in radio broadcasting and recording.

Prerequisite: Consent of instructor on basis of auditions.

Two one-and-one-half-hour periods per week.

- 58-158. Piano Ensemble** **1 unit**

Study of duo-piano works of all periods in music; also original piano duets. Interpretation and technique of ensemble playing.

Two one-hour periods per week.

- 59-159. Chamber Ensemble** **½ unit**
 Study and performance of chamber music of all periods. Class will include duo-piano and small instrumental ensembles.
 Prerequisite: Consent of instructor.
 Two one-hour periods per week.

- 60-160. College Chorus (fall, spring)** **½ unit**
 A musical organization open to any member of the student body without try-outs. It affords opportunity to become acquainted with some of the best music of the past and present. The chorus appears in several public performances during the year.
 Two one-hour periods per week.

- 65-165. A Cappella Choir (year)** **1-1 unit**
 A selected group of singers who sing a cappella literature ranging from the sixteenth century to the present. Principles of style and interpretation, voice production, and other attributes of musicianly singing are dwelt upon to a much greater extent than is possible in the college chorus.
 Prerequisite for Music 165: Consent of instructor on the basis of auditions.
 Four hours per week.

- Madrigal Singers** **No credit**
 Consent of the instructor is required for admission to membership in this choral group.

Applied Music

Private lessons will be given on the basis of one half-hour lesson per week for a fee of \$3 per lesson. (Class lessons in each of these fields are covered by regular tuition, without extra charge.)

- 80-180. Private Lessons—Piano** **1 unit**
 Mr. Fulkerson, Mr. Mearns.
- 81-181. Private Lessons—Strings** **1 unit**
 Mrs. Thompson.
- 82-182. Private Lessons—Brass** **1 unit**
 Mr. Gurnee.
- 83-183. Private Lessons—Woodwinds** **1 unit**
 Mr. Gurnee.
- 84-184. Private Lessons—Organ** **1 unit**
 Mr. Mearns.
- 86-186. Private Lessons—Voice** **1 unit**
 Mr. Barlow.

SPEECH

Requirements for the A.B. Degree with Major in	Speech	Liberal Arts *		
	(General	Speech- English	Radio- Speech	Speech- Dra- matics
	Second- ary Creden- tial)			
Lower Division				
Major:	Units	Units	Units	Units
Spch. 2—Oral Interpretation of Literature—	3	3	3	3
Spch. 3—Public Speaking -----	3	3	3	3
Spch. 10—Survey of Radio Broadcasting -----	—	—	3	—
Spch. 20—Technique of Acting -----	2	2	—	2
Spch. 21—Elementary Stagecraft -----	2	2	—	2
L.D.—Elective in Speech -----	2	—	—	—
General Education: (To be fulfilled in addition to all requirements for the major)				
Engl. 1A—First-year Reading and Composition	3	3	3	3
H.H. 1—Personal Health and Safety -----	2	2	2	2
Literature, Philosophy or Arts -----	6	6	6	6
(Fine and applied arts not to exceed three of the six)				
Natural Science -----	9	9	9	9
(Including one physical and one biological science)				
Physical Education Activities -----	2	2	2	2
Psych. 1—General Psychology -----	3	3	3	3
Social Sciences (See page 38) -----	9	9	9	9
(Including fulfillment of requirement in United States history and Constitution. See page 50.)				
Spch. 1—Fundamentals of Speech -----	3	3	3	3
Restricted Electives -----	8	8	8	8
(Chosen from the above General Education fields or from mathematics, family life edu- cation, or not more than six units of foreign languages.)				
Other Requirements:				
Jn. 20—Newsriting -----	—	—	3	—
B.A. 2A—Typing (or equivalent skill) -----	—	—	0-2	—
B.A. 50—Salesmanship -----	—	—	3	—
I.E. 50—Introduction to Radio -----	—	—	3	—
Or. II—Orientation II -----	1	—	—	—
Completion of lower division requirements for a minor -----	6-20 †	—	—	—

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See page 87. Part of the work for a teaching minor may be completed in the graduate year.

Requirements for the A.B. Degree with Major in	Speech (General Second- ary Creden- tial)	Liberal Arts *		
	Speech- English (Without a Teaching Credential)	Radio- Speech	Speech- Dra- matics	
Upper Division				
Major:	Units	Units	Units	Units
Spch. 111—Adv. Radio Workshop-----	—	—	1	—
Spch. 112—Radio Writing-----	—	—	3	—
Spch. 113—Radio Production Directing-----	—	—	3	—
Spch. 114—Radio Sales and Commercial Operation-----	—	—	3	—
Spch. 115—Advanced Radio Production-----	—	—	3-8	—
Spch. 126—Play Production-----	3	3	—	3
Spch. 127—Play Production-----	3	3	—	3
Spch. 140—Survey of the Drama-----	3	3	—	3
Spch. 170—Phonetics-----	3	—	—	3
Spch. 180—Speech Correction-----	3	—	—	—
Electives in Upper Division Speech chosen from:				
Spch. 102—Advanced Expression and Interpretation-----	3	—	0-6	7
Spch. 103—Advanced Public Speaking-----				
Spch. 106—Discussion Methods-----				
Spch. 110—Survey of Broadcasting-----				
Spch. 111—Advanced Radio Workshop-----				
Spch. 125—Dramatics Workshop-----				
Spch. 130—Playwriting-----	6	9	5	5
Spch. 170—Phonetics-----				
Engl. 112—Phonetics or 115—The English Language-----	—	3	—	—
Engl. 136A or 136B—American Literature-----	—	3 or	—	—
Engl. 162—Shakespeare-----	—	(3)	—	—
Electives in Speech or English-----	6	9	5	5
Total required in the major (Upper Division)	(24)	(24)	(24)	(24)
Other Requirements:				
Educ. 113—Psychological and Social Founda- tions of Education-----	5	—	—	—
Educ. 153—Audio-Visual Education-----	2	—	—	—
Educ. 175—Core Course in Secondary Education-----	5	—	—	—
Educ. 195Sp—The Teaching of Speech-----	2	—	—	—
Completion of upper division requirements for a minor-----	0-6 †	—	—	—
Electives to total-----	124	124	124	124
Total upper division required-----	40	40	40	40
Scholarship Requirements:				
In all work taken-----	1.00	1.00	1.00	1.00
In major-----	1.00	1.00	1.00	1.00
In minor-----	1.00	—	—	—
In each education course taken-----	1.00	—	—	—
For admission to Graduate Division:				
In major-----	1.5	—	—	—
In all upper division work taken-----	1.5	—	—	—

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See page 87. Part of the work for a teaching minor may be completed in the graduate year.

Graduate Year (General Secondary Credential Only)

	<i>Units</i>
Electives in speech (graduate or upper division courses)	3
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Elective in secondary subject field	3
Major or minor or electives (upper division or graduate courses) to total	30
Scholarship requirement (all work in graduate year)	1.75

SPECIAL SECONDARY CREDENTIAL IN SPEECH CORRECTION

Holders of General Elementary or General Secondary credentials who have taught successfully for two years (or who have completed at least four units of directed teaching) and who have the necessary personal characteristics for work with handicapped children may qualify for the Special Secondary Credential in Speech Correction by completing the following courses:

Lower Division

	<i>Units</i>
Speech 1—Fundamentals of Speech	3
Speech 2—Oral Interpretation of Literature	3

Upper Division

Speech 170—Phonetics	3
Speech 180—Speech Correction	3
Speech 181—Advanced Speech Correction	3
Educ. 320C—Directed Teaching in the Elementary School (Special Field of Speech Correction)	2

GENERAL SECONDARY CREDENTIAL WITH MAJOR IN LANGUAGE ARTS

Details of this program are given on pages 105-106 of this catalog under the Division of Language and Literature.

REQUIREMENTS FOR

<i>Junior High School</i>		<i>Teaching Minor for Candidates for</i>	
<i>Major</i>		<i>General Secondary Credential</i>	
		<i>Speech</i>	
Lower		Speech 1 ---- 3 units	
Division	Speech 1 ---- 3 units	Speech 2 ---- 3 units	
	Speech 2 ---- 3 units	Speech 3 ---- 3 units	
	Speech 3 ---- 3 units	Plus courses approved	
	Electives ---- 3 units	by the Divisional	
Upper		Chairman__14 units	
Division	Speech 126 __ 3 units	(At least 6 units must	
	Speech 127 __ 3 units	be in the upper di-	
	Speech 180 __ 3 units	vision.)	
	Speech 191 __ 3 units		
	Electives ---- 3 units		
Total Units			
Required	27 units	20 units	

Additional requirements for the junior high school credential are given in detail on pages 52-53.

	Minors	
	Radio	Speech-Dramatics
Lower Division-----	Speech 1----- 3 units Speech 2----- 3 units	Speech 1----- 3 units Speech 3----- 3 units
Upper Division-----	Speech 113----- 3 units Speech 114----- 3 units	Speech (U.D.) 6 units
Total Units Required-----	12 units	12 units

DESCRIPTION OF COURSES

Lower Division

1. **Fundamentals of Speech** (fall, spring) 3 units
An introductory course in public speaking and reading aloud, involving the study of voice control, delivery techniques, speech composition, types of readings and speeches. Three one-hour periods per week.
2. **Oral Interpretation of Literature** (spring) 3 units
A basic course in voice training and in the art of oral interpretation. Oral interpretation of poetry, short stories, and dramatic scenes from the standpoint of both emotional and intellectual reaction.
Prerequisite: Speech 1.
Three one-hour periods per week.
3. **Public Speaking** (fall) 3 units
A basic course in the fundamentals of speech planning and delivery. The course aims to develop self-confidence and poise through oral expression and to awaken interest in the events and problems of the modern world.
Prerequisite: Speech 1.
Three one-hour periods per week.
7. **Radio Speech** (spring) 3 units
The theory and practice of radio broadcasting as distinguished from platform speaking. Class practice with proven broadcasting materials of all kinds.
Prerequisite: Speech 1 and 2 or the consent of the instructor.
Three one-hour periods per week.
10. **Survey of Radio Broadcasting** 3 units
An introduction to radio and television, including the history of broadcasting; government regulations; station organization and major network organization; method and types of broadcasting and production; commercial methods and policies; educational broadcasting and broadcasters; public service responsibilities; recent trends in broadcasting; and the future of radio and television.
Three one-hour periods per week.
11. **Radio Workshop** (fall, spring) 1-2 units
The emphasis is upon the production of radio programs presented on the campus training station and programs released over the local radio stations in Eureka. Course work includes training in related skills such as writing, directing, producing, and broadcasting radio programs.
One lecture hour per week, and two (or five) workshop hours per week (depending upon the unit credit to be earned).
A maximum of four units degree credit is allowed for this course.
- *20. **Technique of Acting** (fall) 2 units
Embraces the basic principles of dramatic art. It teaches the fundamentals of pantomime, impersonation, and oral expression and acting. It is designed for students with little or no stage experience who wish to improve their speaking voices and to develop poise and self confidence.
Two two-hour periods per week.

* Not given 1951-52.

21. Elementary Stagecraft

2 units

The planning, building, painting and lighting of scenery.
One one-hour lecture and one three-hour laboratory period per week.

25. Dramatic Workshop (fall, spring)

1-2 units

A laboratory course in acting and in the technical practices of the stage, including construction of sets, stage lighting, theatrical costume and make-up. Time is spent in the actual work of preparing plays for public performance. A maximum of four units degree credit is allowed for this course.

Three two-hour periods per week (for two units of credit).

***30. Playwriting (fall)**

3 units

The critical analysis of dramatic structure and techniques designed for the student interested in dramatic literature, play directing, or the writing of original plays for the stage and radio.

Prerequisite: English 1A-1B or consent of the instructor.

Two two-hour periods per week.

40. Drama History and Appreciation

3 units

Designed for students not majoring in speech and drama, but who wish to know more about drama as a part of their general education. Will cover representative plays from the Greeks to those of present-day playwrights—the Continent, England, and America.

Not open to speech and drama majors.

Three one-hour periods per week.

80. Speech Clinic (fall, spring)

$\frac{1}{2}$ -1 unit

Individual instruction for students having minor disturbances of voice or speech as well as those having more serious disorders. Consent of the instructor must be obtained for enrollment.

Two one-hour periods per week.

Upper Division

Speech 1, and 2 or 3 or consent of instructor are prerequisite to all upper division courses.

102. Advanced Expression and Interpretation (spring)

3 units

A course in reading aloud in which particular attention will be paid to the specific interests, needs, and abilities of the individual student, which determine his activities in class. Special attention is given to the needs of prospective teachers with respect to reading aloud in the classroom.

Prerequisite: Speech 2.

Three one-hour periods per week.

103. Advanced Public Speaking (fall)

3 units

Embraces a more detailed study of speech planning, the techniques of presentation, and the forms of address. Extensive practice in extemporaneous speaking.

Prerequisite: Speech 3.

Three one-hour periods per week.

***106. Discussion Methods**

2 units

Techniques of group discussion including the conference, panel, and symposium forms; practical experience in discussion of current problems; the study of parliamentary law and its application to the organization and functioning of groups.

Two one-hour periods per week.

110. Survey of Radio Broadcasting (spring)

3 units

Designed for radio majors and minors and students working toward a Liberal Arts degree. Upper division students are required to work on research or other suitable projects toward class credit.

Three one-hour periods per week.

* Not given 1951-52.

111. Advanced Radio Workshop**1-2 units**

A course of the same character as Speech 11 for advanced students.

Prerequisite: Consent of the instructor.

One lecture hour per week, and two (or five) workshop hours per week (depending upon the unit credit to be earned).

A maximum of four units degree credit is allowed for this course.

112. Radio Writing**3 units**

Analytical study is given to radio play scripts, continuity forms, commercial announcements, special events programs, talks, public service programs, etc. Scripts written by members of this class are utilized in the workshop courses, production courses, and directing courses.

Prerequisite: English 1A-1B and consent of the instructor.

Three one-hour periods per week.

113. Radio Production Directing**3 units**

Study of the program director's job in the average radio station, including the planning, organization, and production of all types of radio programs: Special events, broadcasts, commercial programs, interviews, dramatic programs, network programs, and various types of recorded programs.

Prerequisite: Speech 10 or 110, 11 or 111, and consent of the instructor.

Three one-hour class periods per week.

114. Radio Sales and Commercial Operation (fall)**3 units**

Study of the business manager's job in the average radio station; analysis of the costs in running a station, copy analysis and placement, sales methods, analysis of programs in relation to sales possibilities, Federal Trade Commission regulations, national advertising associations, costs of programs, making of contracts, etc.

Prerequisite: Speech 10 and 113 or consent of instructor.

Three one-hour periods per week.

115. Advanced Radio Production**3-8 units**

The many aspects of the radio profession through "on the job" participation in studio work of stations KIEM-KRED, KHUM, and the college campus training station. Offered to superior students who meet related requirements and who have completed Speech 10, 110, 11, 111, 112, 113, and 114.

From nine to twenty-four hours per week, depending upon the unit credit to be earned.

116. Music in Radio Broadcasting (spring)*3 units**

The various uses of music in the radio program involving the building and production of musical programs; writing musical continuity; arranging music for dramatic radio; and inspection of the functional importance of music and its practical use in current programs.

Prerequisite: Speech 10 or 110, 11 or 111, 113.

Three one-hour periods per week.

125. Advanced Dramatic Workshop (fall, spring)**1-2 units**

A course of the same character as Speech 25 for advanced students.

Prerequisite: Speech 1, 2 or 3 or consent of the instructor.

Three two-hour periods per week (for two units).

A maximum of four units degree credit is allowed for this course.

126. Play Production (spring)*3 units**

Designed for teachers and students who intend to engage in the work of directing plays. Attention is given to the choice of material for amateur theatricals, directing techniques, make-up, costuming, publicity, and advertising, ticket sales, house management, etc.

Two two-hour and one one-hour periods per week.

127. Play Production (fall)*3 units**

A lecture and laboratory course designed primarily for teachers and students who intend to engage in the work of staging play productions. This advanced course includes stage designing, construction, painting, lighting, sound effects, furniture, and furnishings.

Three one-hour and one two-hour periods per week.

* Not given 1951-52.

***130. Advanced Playwriting (fall)**

3 units

A continuation of Speech 30, with opportunity for each student to concentrate his activities in any one of the following fields of playwriting: one-act plays, radio plays, skits, blackouts, three-act plays, for possible production by the college drama department.

Prerequisite: English 1A-1B or consent of instructor.

Two two-hour periods per week.

140. Survey of the Drama

3 units

The historical development of the drama, covering representative plays from the Greeks to those of present-day playwrights—the Continent, England, and America. Students not majoring in speech and drama may take this course either as a lower division class (Speech 40) or as an upper division class (Speech 140). Students having upper division standing are advised to register for Speech 140.

Three one-hour periods per week.

141. Modern American Drama (spring)

3 units

A course in the American theater and its staging, acting, and drama from the Civil War to the present day. Primary emphasis in the course is placed upon the theater and drama from 1918 to the present. The course is conducted through lectures, assigned reading, discussions, and assigned reports.

Three one-hour periods per week.

170. Phonetics (fall)

3 units

Principles of phonetics; pronunciation, based on contemporary American usage; phonetic analysis applied to speech improvement.

Three one-hour periods per week.

***180. Speech Correction (spring)**

2-3 units

The classification, diagnosis, and treatment of speech defects. Theory supplemented by demonstrations and supervised practical work with children and adults in the speech clinics. Intended particularly for training prospective teachers to recognize and correct speech defects of elementary school children.

Two one-hour class periods and three one-hour laboratory periods per week.

***181. Advanced Speech Correction (fall)**

2-3 units

Emphasis is placed upon the more serious types of speech disorders. Special attention is given to making case studies and speech surveys as well as to methods of testing and diagnosis. Supervised clinical practice.

Two one-hour class periods and three one-hour laboratory periods per week.

191. Speech and Drama in the Elementary and Junior High School (spring)

3 units

Designed for the teacher who is interested in using dramatic activities and discussion techniques. A workshop for the consideration of such problems as: Conducting round tables, panels, symposia, and forums; coaching debaters; choosing school plays; using speech and drama in the classroom.

Three one-hour periods per week.

199. Directed Study in Speech Problems (fall, spring)

1-3 units

Student assists in speech training. Consent of instructor required for enrollment.

Hours to be arranged with the instructor.

Graduate Division

226. Advanced Stage Direction (fall, spring)

3 units

The purpose of this course is to train teachers in the techniques of dramatic direction. The student will study problems in theory involving an examination of the various historic and modern styles of acting. Each student will produce a full length play and will prepare a prompt-book based on the production.

Prerequisite: Graduate standing and consent of instructor.

241. Modern American Drama (spring)

3 units

See 141.

The Division of Health and Physical Education

OBJECTIVES

The Division of Health and Physical Education has the following functions:

1. To provide all students with an opportunity to secure instruction for the development of skills in a variety of physical activities which contribute to maintenance of health and which give opportunity for self-expression in individual or group participation;
2. To give students an opportunity for recreation and competition in the voluntary, the intramural, and the intercollegiate sports programs;
3. To provide professional training for students seeking to qualify themselves for positions in public school teaching in health and physical education or in school and municipal recreation leadership;
4. To prepare teachers to handle intelligently the health and physical education program in the elementary schools;
5. To provide curricula leading to the B.S. degree for graduate nurses and prenursing students; and
6. To provide opportunities for those interested to acquire skills, techniques, and principles which enable them to serve their communities as leaders of young people.

GENERAL REQUIREMENTS IN HEALTH AND PHYSICAL EDUCATION

Service Courses

All students who are enrolled in the college for 12 or more units are required to take an activity course twice weekly during each semester of the freshman and sophomore years. Men may substitute registration in intercollegiate athletics for an activity course during the semester of competition. First semester freshmen are expected to enroll in P. E. 5 (Men) or P. E. 15 (Women).

Lower division students carrying fewer than 12 units during any semester may postpone taking physical education but are not exempt from the total four semesters requirement in lower division.

No permanent excuse from required activity courses may be granted other than by written consent of the division chairman.

Health Education

Two units of credit in H. & H. 1 (Personal Health and Safety) are required of all students for graduation in A.B. and B.S. degree programs. This course meets the State regulation for safety and fire prevention education.

<i>Requirements for the A.B. Degree With Major in Health and Physical Education</i>		<i>Liberal Arts *</i> (Without a teaching credential)	
Lower Division			
Major:	<i>Units</i>	<i>Units</i>	<i>Units</i>
P.E. 70—Introduction to Physical Education--	2	2	2
H.H. 55—First Aid -----	2	2	2
Anat. 66—Human Anatomy -----	3	3	3
General Education (To be fulfilled in addition to all work taken for the major):			
Engl. 1A-1B—First-year Reading and Composi- tion -----	6	6	6
H.H. 1—Personal Health and Safety-----	2	2	2
Literature, Philosophy, or Arts-----	6	6	6
(Fine and applied arts not to exceed three of the six)			
Natural Sciences -----	9	9	9
(Including :			
Chem. 2A—General Chemistry -- 3 units			
Physiol. 1—Elementary Physiol. 3 units			
Electives in science ----- 3 units)			
Physical Education Activities-----	2	2	2
Psych. 1—General Psychology -----	3	3	3
Social Sciences. (See page 38.)-----	9	9	9
(Including fulfillment of requirement in United States history and Constitution. See page 50.)			
Spch. 1—Fundamentals of Speech-----	3	3	3
Restricted Electives -----	5	5	5
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
H.E. 20—General Nutrition -----	2	2	2
Or. II—Orientation II -----	1	1	1
Completion of lower division requirements for a minor -----	6-20†	†	†

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See page 96. Part of the work required for a teaching minor (usually not more than five units) may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in physical education, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

Liberal Arts
(Without a
teaching
credential)

*Requirements for the A.B. Degree With Major in
Health and Physical Education*

Upper Division

Major:	Units	Units	Units
(Courses marked * should be taken during the junior year) :			
*P.E. 100-101—Physical Education Activity (Majors) -----	4	4	4
*P.E. 151—Kinesiology and Applied Anatomy -----	3	3	3
P.E. 152—Methods in Corrective Physical Education -----	2	2	2
*P.E. 153—Physiology of Exercise -----	3	3	3
P.E. 154—Tests and Measurements in Physical Education -----	2	2	2
P.E. 175—History and Principles of Physical Education -----	2	2	2
*P.E. 191—Singing Games and Folk Dances -----	1	1	1
P.E. 192A-B—Theory of Athletics (Men) or 193A-B—Methods of Teaching Sports (Women) -----	4	4	4
H.H. 161—School Health Program -----	3	3	3
Electives chosen from :			
P.E. 76—Principles of Community Recreation	5	5	5
P.E. 77—Campcraft and Leadership			
P.E. 88—Club Leadership			
P.E. 199—Special Problems			
H.H. 50—Home Nursing			
H.H. 156—Techniques in Athletic Training			
H.H. 160—Public Health			
NOTE: If the student fails to pass the proficiency test in activity areas at the conclusion of the junior year, it will be necessary to utilize two of the five elective units listed above to develop proficiency in these areas.			

Requirements for the A.B. Degree With Major in Health and Physical Education	Liberal Arts (Without a teaching credential)		
	Units	Units	Units
Other Requirements:			
(Courses marked * should be taken during the junior year) :			
*Educ. 113—Psychological and Social Founda- tions of Education-----	5	5	-
Educ. 153—Audio-Visual Education-----	2	2	-
Educ. 175—Core Course in Secondary Educa- tion-----	5	5	-
*Educ. 190PE—Elementary School Physical Education-----	-	2	2
*Educ. 195PE—The Teaching of Physical Edu- cation-----	2	2	-
Educ. 320C—Directed Teaching—Elementary School Physical Education-----	-	2	-
Educ. 340A—Directed Teaching—Secondary School Physical Education-----	-	3	-
Completion of upper division requirements for a minor-----	0-6†	†	†
Electives to total-----	124	124	124
Total upper division required-----	40	40	40

Scholarship Requirements:

In all work taken-----	1.00	1.00	1.00
In major-----	1.00	1.00	1.00
In minor-----	1.00	-	-
In each Education course taken-----	1.00	1.00	-
For admission to Graduate Division :			
In major-----	1.5	-	-
In all upper division work taken-----	1.5	-	-

Graduate Year (General Secondary Credential Only)

	Units
P.E. 289 and 299-----	4-6
Educ. 265—Guidance in Education-----	2
Educ. 275—Seminar in Secondary Education-----	2
Educ. 340A-340B—Directed Teaching in the Secondary School-----	6
Elective in secondary subject field-----	0-2
Major, or minor or elective (upper division or graduate courses) to total-----	30
Scholarship requirement (all work in graduate year)-----	1.75

RECREATIONAL LEADERSHIP

A two-year terminal course is suggested for students who would like to obtain employment in municipal recreation centers, state or national parks, summer camps, or other recreational areas, or for the training of volunteer workers in community youth projects. Certain basic courses are outlined, and the rest of the program may be made up from electives selected on the basis of the student's interests and vocational objectives.

RECOMMENDED SEQUENCE

Freshman Year

	Sem. 1	Sem. 2
English 1A-1B (First-year Reading and Composition)-----	3	3
Health and Hygiene 1 (Personal Hygiene)-----	2	-
Health and Hygiene 55 (First Aid)-----	-	2
Physical Education 77 (Recreation and Campercraft)-----	-	2
Sociology 1A-1B (Introduction)-----	3	3
Electives-----	7	5
	15	15

† See page 96. Part of the work required for a teaching minor (usually not more than five units) may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in physical education, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

Sophomore Year

	Units	Units
History 70 (History of the United States) -----	2	-
Physical Education 31 (Introductory Social Dancing) -----	$\frac{1}{2}$	-
Physical Education 33 (Folk Dancing) -----	-	$\frac{1}{2}$
Physical Education 88 (Club Leadership) -----	2	-
Physical Education 76 (Community Recreation) -----	-	2
Political Science 51 (American Constitutional Government) -----	-	2
Psychology 1 (General) -----	-	3
Speech 1 (Fundamentals) -----	3	-
Electives -----	$7\frac{1}{2}$	$7\frac{1}{2}$
	15	15

Recommended electives: Art 40 (Crafts); 50 (Photography); Speech 11 (Radio Workshop); 25 (Dramatic Workshop); Geology 1A; Zoology 165 (Ornithology); Wildlife Management 2 (Conservation); 5 (Techniques); English 178 (Children's Literature); P. E. 194A-B (Officiating); Music Activities; Sociology 103 (Crime and Delinquency); or 106 (The Community). The student must comply with rules governing admission to upper division classes.

If a student is interested in a degree program emphasizing Recreational Leadership, a group major may be arranged. See page 154.

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	Lower Division
H.H. 1 ----- 2 units	H.H. 1 ----- 2 units	H.H. 1 ----- 2 units
H.H. 55 ----- 2 units	H.H. 55 ----- 2 units	H.H. 55 ----- 2 units
P.E. 76 ----- 2 units		
P.E. 70 ----- 2 units	Men	
P.E. 77 ----- 2 units	P.E. 1, 2 ----- 2 units	A minimum of 17 elective units in courses ap- proved by the Chairman of the Division.
	Women	
	P.E. 15 ----- $\frac{1}{2}$ unit	
	P.E. 16A ----- $\frac{1}{2}$ unit	
	P.E. 17A ----- $\frac{1}{2}$ unit	
	P.E. 18A ----- $\frac{1}{2}$ unit	
Upper Division	Upper Division	
Educ. 195PE -- 2 units	Educ. 195PE -- 2 units	
H.H. 161 ----- 2 units	P.E. 190 ----- 2 units	
P.E. 175 ----- 3 units	P.E. 191 ----- 1 unit	
P.E. 100-101 -- 4 units		
P.E. 190 ----- 2 units		
P.E. 191 ----- 1 unit		
Men	Men	
P.E. 192 ----- 4 units	P.E. 192 ----- 4 units	
Women	Women	
P.E. 193 ----- 4 units	P.E. 193 ----- 4 units	
Totals units required:		
28 units	15 units	21 units

Additional requirements for the junior high school credential are given in detail on pages 51-52.

DESCRIPTION OF COURSES

COURSES FOR MEN

Lower Division

- | | |
|---|--------------------------------------|
| 5. Freshman Physical Activities (fall, spring) | $\frac{1}{2}$ unit |
| Fundamentals of team and individual sports, together with some achievement tests. | |
| Required of all freshmen and limited to freshmen. | |
| Two one-hour periods per week. | |
| 6. Team Sports (fall) | $\frac{1}{2}$ unit |
| Touch football, volleyball, and handball. | |
| Two one-hour periods per week. | |
| 7. Team Sports (spring) | $\frac{1}{2}$ unit |
| Basketball, track, and softball. | |
| Two one-hour periods per week. | |
| 8. Individual Sports (fall, spring) | $\frac{1}{2}$ unit |
| Boxing, wrestling. | |
| Two one-hour periods per week. | |
| 9A-9B. Tumbling (fall, spring) | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 10. Body Building (spring) | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 11A-11B. Gymnastics (fall, spring) | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 12A-12B. Trampoline (fall, spring) | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 50. Intercollegiate Football (fall) | 1 unit |
| Varsity and junior varsity teams. | |
| Daily afternoon practice. | |
| 51. Intercollegiate Basketball (fall and spring) | $\frac{1}{2}$ unit |
| Varsity and junior varsity teams. | |
| Daily afternoon practice. | |
| 52. Intercollegiate Baseball (spring) | 1 unit |
| Varsity and junior varsity teams. | |
| Daily afternoon practice. | |
| 53. Intercollegiate Track (spring) | 1 unit |
| Varsity team. | |
| Daily afternoon practice. | |
| 54. Intercollegiate Boxing (fall and spring) | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 89. Scouting | 2 units |
| Emphasizes the aims and purposes of Scouting, its character influencing and citizenship training methods, information on how to organize the Scout program, how it is used by local institutions and information and skills of the Scoutmaster. | |
| Two one-hour periods per week. | |

Upper Division

- 192A. Theory of Athletics (fall)** **2 units**
 Coaching techniques in football and basketball.
 Prerequisite: Upper division status.
 Two one-hour periods per week.
- 192B. Theory of Athletics (spring)** **2 units**
 Coaching techniques in baseball, track and field.
 Prerequisite: Upper division status only.
 Two one-hour periods per week.
- *194A. Football Officiating (fall)** **1 unit**
 The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials.
 One two-hour period per week.
- *194B. Basketball Officiating (fall)** **1 unit**
 The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials.
 One two-hour period per week.

COURSES FOR WOMEN**Lower Division**

- 15. Freshman Physical Activities (fall)** **1 unit**
 A course to give the entering student an opportunity to participate in activities which demand and develop fundamental skills, such as running, throwing, catching, and relaxing, in at least one team game, and in activities which help correct the more prevalent deviations from normal body mechanics.
 Required of all freshmen women and limited to freshmen.
 Two one-hour periods per week.
- 16. Team Sports (fall)** **1 unit**
 Field hockey, soccer, speedball.
 Two one-hour periods per week.
- 17. Team Sports (spring)** **1 unit**
 Basketball, softball, volleyball.
 Two one-hour periods per week.
- 18A. Beginning Dance (fall)** **1 unit**
 Introduction to modern dance technique.
 Two one-hour periods per week.
- 18B. Intermediate Dance** **1 unit**
 Two one-hour periods per week.
- 18C. Advanced Dance** **1 unit**
 Two one-hour periods per week.

Upper Division

- 193A. Methods of Teaching Team Sports** **2 units**
 Field hockey, soccer, softball, volleyball, speedball, basketball.
 Prerequisite: Previous participation.
- 193B. Methods of Teaching Individual Sports** **2 units**
 Tennis, archery, badminton, recreational sports.
 Prerequisite: Previous participation.

* Given if sufficient demand.

COURSES FOR MEN AND WOMEN

Lower Division

25. Individual Exercise Program (fall, spring)	$\frac{1}{2}$ unit
A program of special exercise and activity suited to the individual student. Two one-hour periods per week.	
27A. Elementary Tennis (fall, spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
27B. Intermediate Tennis (fall, spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
27C. Advanced Tennis (fall, spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
28A. Elementary Archery (fall, spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
28B. Advanced Archery (fall, spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
29A. Badminton (fall, spring)	$\frac{1}{2}$ unit
Badminton, deck tennis, paddle tennis, table tennis. Two one-hour periods per week.	
29B. Advanced Badminton (fall, spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
30A. Elementary Golf (fall, spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
30B. Advanced Golf (fall, spring)	$\frac{1}{2}$ unit
One two-hour period per week.	
31. Introductory Social Dancing (fall)	$\frac{1}{2}$ unit
An introductory course including both ballroom and folk dancing. Two one-hour periods per week.	
32. Ballroom Dancing (spring)	$\frac{1}{2}$ unit
Basic dance techniques; fox trot, waltz, tango, and current routines. Dance etiquette.	
33. Folk Dancing (fall, spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
34. Square Dancing (fall, spring)	$\frac{1}{2}$ unit
Two one-hour periods per week.	
36. Bowling	$\frac{1}{2}$ unit
Two one-hour periods per week.	
55. Intercollegiate Tennis (spring)	1 unit
Daily afternoon practice.	
56. Intercollegiate Golf (spring)	1 unit
Daily afternoon practice.	
70. Introduction to Health and Physical Education (spring)	2 units

The origins, aims and objectives of the modern school program in health and physical education are studied to enable the student to formulate a fundamental background and a basic philosophy for his profession. There is an emphasis on integration with the total school program.

76. Principles of Community Recreation (spring) 2 units

A consideration of the principles involved in developing an ideal program of recreation. Some practical experience in organizing college recreational activities is required.

Two one-hour periods per week.

77. Recreation and Campcraft (spring) 2 units

Thorough theoretical background and some practical laboratory experience in playground work.

88. Club Leadership 2 units

History of boys' and girls' club work; the basic principles and conceptions of these movements; the organization of such a program in the community; requirements for adult leadership; summer camps. This course will include practice in laboratory field work.

Upper Division**100-101. Major Activities (year) 2-2 units**

Required of all physical education majors before admission to directed teaching. The object of the course is to develop skill and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Sound techniques in teaching are emphasized.

Four one-hour periods per week.

151. Kinesiology and Applied Anatomy (fall) 3 units

Study of the anatomy of muscles, bones, joints and of the nervous system as a basis for understanding bodily movement in exercise and sports.

Three one-hour periods per week.

152. Methods in Corrective Physical Education (spring) 2 units

The principles underlying good body mechanics; the causes, correction, and prevention of postural defects; methods of relaxation; the place of Corrective Physical Education in the school program; equipment facilities and procedure; fundamentals and practice of massage. Much of the work is practical.

Prerequisite: Physical Education 151.

Two one-hour periods per week.

153. Physiology of Exercise (fall) 3 units

The physiological effects of muscular exercise, athletic training and physical conditioning are studied. The significance of these effects are evaluated in terms of performance in physical education activities and interscholastic competition.

Prerequisite: Physiology 1 and Anatomy 66.

Three one-hour periods per week.

154. Tests and Measurements in Physical Education (fall) 2 units

The use of tests and measurements in physical education; evaluation of objectives, programs and student achievement through measurement and evaluative techniques.

175. History and Principles of Physical Education (fall) 3 units

The evaluating of the history of physical education, the weighing of current problems in the field, the setting up of a code of ethics for professional workers, and the formulating of aims and objectives.

Three one-hour periods per week.

190. Elementary School Physical Education (fall, spring) 2 units

(See Education 190PE.)

The organization of the physical education program in grades one through eight.

Two class and one observation hours per week.

191. Methods in Singing Games and Folk Dances (fall, spring) 1 unit

Participation in and conduct of rhythms suitable for children of the elementary school and junior high school.

Two one-hour periods per week.

Graduate Division**289. Techniques of Research in Physical Education** 2-3 units

Research and investigation in the problems of health, physical education and recreation. Hours to be arranged in terms of the investigation.

*** 292. Advanced Coaching Techniques** 2 units

The theory and practice of advanced coaching techniques as related to inter-scholastic and collegiate competition.

299. Problems in Health, Physical Education and Recreation 1-3 units

A study of selected problems in health, physical education and recreation. A survey of current problems facing the physical educator from a review of literature, consideration of trends and analysis and evaluation of school situations.

* Not given 1951-52.

HEALTH AND HYGIENE

NURSING CURRICULA

Graduate nurses from accredited nursing schools with three years of training who hold California certification as registered nurses may be granted the Bachelor of Science degree upon the completion of an approved program of study, as outlined below. Transcripts of record covering the hospital training program should be submitted for evaluation.

The major requirements are presumed to be satisfied by the work in nursing, for which from 30 to 60 units may be allowed.

Require- ments for	B. S. Degree with major in nursing	Graduate nurses	Prenursing students
Major:		<i>Units</i>	<i>Units</i>
Nursing -----		30-60	30-60
General Education:			
Engl. 1A—First-year Reading and Composition -----		3	3
H.H. 1—Personal Health and Safety -----		2	2
Literature, Philosophy or the Arts -----		6	6
(Fine and applied arts not to exceed three of the six)			
Natural Sciences—Electives (see page 38) -----		9	—
Bact. 1—General Bacteriology -----		—	5
Chem. 2A—Introduction to Chemistry -----		—	3
Physiol. 1—Elementary Physiology -----		—	3
Physical Education Activities -----		2	2
Psych. 1—General Psychology -----		3	3
Social Sciences (see page 38) -----		9	9
(Including fulfillment of requirement in United States history and Constitution. See page 50.)			
Spch. 1—Fundamentals of Speech -----		3	3
Restricted Electives -----		8	6
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
Anat. 66—Human Anatomy -----		—	3
H.E. 20—General Nutrition -----		—	3
Electives to bring total to -----		128	128
Scholarship requirement on all work taken -----		1.00	1.00

UNIVERSITY OF CALIFORNIA SCHOOL OF NURSING

Students who expect to enter hospitals maintained by the University of California or Stanford University must conform to the entrance requirements for those institutions, and plan their college programs to meet the undergraduate patterns prescribed. In general, the courses outlined below fulfill the requirements for transfer to the University of California School of Nursing, if the student has no entrance deficiencies. Subject A. (Subject A or English 1A at Humboldt fulfills this requirement.)

Year course ¹ -----	6 units
English 1A-1B or Speech 1, and 2 or 3 -----	6 units
Foreign Language ¹ -----	16 units
Natural Science -----	21 units
(Chemistry 1A, 8, Bacteriology 1, Anatomy 66, Physiology 1)	
Philosophy 6A-6B -----	6 units
Physical Education -----	2 units
Psychology 1 -----	3 units
Political Science 51 and History 70 -----	4 units

¹ See associate in arts degree requirements of the University of California.

One-year Curriculum

The one-year prenursing program has been outlined to meet the needs of students who wish to take their professional training in one of the nursing schools which require one year of college work as prerequisite to admission.

Recommended Sequence

	<i>Sem. 1</i>	<i>Sem. 2</i>
Anatomy 66 -----	-	3
Bacteriology 1 -----	5	-
Chemistry 2A -----	3	-
English 1A -----	-	3
Home Economics 20 -----	3	-
Physiology 1 -----	-	3
Psychology 1 -----	-	3
Electives -----	4	2
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
	15½	14½

REQUIREMENTS FOR

<i>Junior High School Major</i>		<i>Minor</i>		<i>Minor for Candidates for General Secondary Credential</i>
Lower Division :				
H.H. 1 -----	2 units	H.H. 1 -----	2 units	H.H. 1 ----- 2 units
H.H. 55 -----	2 units	H.H. 55 -----	2 units	H.H. 55 ----- 2 units
Anat. 66 -----	3 units	H.E. 20 -----	3 units	At least 16 additional units in courses approved by the Divisional Chair- man.
H.E. 20 -----	3 units			
Physiol. 1 --	3 units			
Upper Division :				
P.E. 151 ---	3 units	H.H. 160 -----	3 units	
P.E. 153 ---	3 units	H.H. 161 -----	3 units	
H.H. 160 ---	3 units			
H.H. 161 ---	3 units			
Total units				
required 25 units			13 units	20 units

Additional requirements for the junior high school credential are given in detail on pages 51-52.

A liberal arts group major which includes Health and Hygiene may be arranged in consultation with the student's adviser and the Registrar's office. See page 154.

DESCRIPTION OF COURSES**Lower Division****1. Personal Health and Safety (fall, spring) 2 units**

The basic principles of healthful living. Informational personal hygiene with consideration of the physical, mental and social well-being of the individual. Deals with the principles of healthful living and assists students to make a conscious adjustment to their environment.

Safety education and fire prevention are studied in compliance with state requirements.

Two one-hour periods per week.

50. Home Nursing (fall, spring) 2 units

Students completing this course and passing the examination will be granted the Red Cross Home Nursing Certificate.

Two one-hour periods per week.

55. First Aid (fall, spring)**2 units**

This course conforms to the standards of the American Red Cross. Lectures, practical demonstrations, and practice periods. Those passing the written tests and practical demonstrations will receive the Standard and Advanced Red Cross First Aid Certificates.

Two one-hour periods per week.

Upper Division**156. Techniques in Athletic Training****2 units**

Care and prevention of athletic injuries, taping, bandaging, massage, manipulation, and heat therapy.

Two one-hour periods per week.

160. Public Health**3 units**

A survey of the field of public health, including disease prevention and control; the social, medical, and economic aspects of sickness and disability, with special emphasis on administrative programs of federal, state, and local health agencies.

Three one-hour periods per week.

161. School Health Program (fall)**3 units**

Designed for teachers of health in the public schools. Basic personal, community, and school health problems; content and materials essential in health instruction. Includes techniques of measuring and evaluating health status and health practices.

Two one-hour periods per week.

Related Courses in Other Departments

Anatomy 66 (Human Anatomy) _____	3 units
Bacteriology 1 (General Bacteriology) _____	3 or 5 units
Biology 103 (Microtechnique) _____	2 or 3 units
Home Economics 20 (Nutrition and Foods) _____	2 or 3 units
Home Economics 120 (Dietetics) _____	3 units
Home Economics 150 (Child Care) _____	2 units
Physical Education 151 (Applied Kinesiology) _____	3 units
Physical Education 152 (Methods in Corrective Physical Education) _____	2 units
Physical Education 153 (Physiology of Exercise) _____	3 units
Physiology 1 (Elementary Physiology) _____	3 or 5 units

The Division of Language and Literature

English Language and Literature
Journalism

Foreign Languages and
Literature

OBJECTIVES

The objectives of the Division of Language and Literature are:

1. To offer courses that will enrich cultural and social backgrounds, provide improved use of communication skills, and aid in developing a general background in English for prospective teachers.
2. To provide curricula leading to:
 - a. General secondary credential with majors in English and language arts.
 - b. The A.B. degree with a liberal arts major in English as a basis for graduate study for advanced degrees.
 - c. Professional work in journalism.
3. To enable the student to read and use French or Spanish languages for recreative, cultural, or vocational purposes.
4. To give the student a knowledge of the foreign country and its people.
5. To provide courses for a junior high school major in English, minors in English, journalism, French, and Spanish, and a two-year terminal curriculum in journalism.

ENGLISH

	Language English *		
	English	Arts	Liberal Arts
	with		(without a
	General Secondary		teaching
	Credential		credential)
Requirements for the A. B. Degree with Major in			
	Lower Division	Units	Units
Major:			Units
Engl. 1B—First-year Reading and Composition-----		3	3
Engl. 46A-46B—Survey of English Literature-----		6	6
Spch. 2—Oral Interpretation of Literature or			
Spch. 3—Public Speaking-----		—	3
Spch. 11—Radio Workshop-----		—	2
Jn. 20—Newsriting-----		3	3
General Education: (To be fulfilled in addition to all requirements for the major)			
Engl. 1A—First-year Reading and Composition-----		3	3
H.H. 1—Personal Health and Safety-----		2	2
Literature, Philosophy, or Arts-----		6	6
(Fine and applied arts not to exceed three of the six)			
Natural Sciences-----		9	9
(Including one physical and one biological science)			
Physical Education Activities-----		2	2
Psych. 1—General Psychology-----		3	3
Social Sciences-----		9	9
(Including fulfillment of requirement in United States history and Constitution. See page 50.)			
Spch. 1—Fundamentals of Speech-----		3	3
Restricted Electives-----		8	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language)			
Other Requirements:			
Or. II—Orientation II-----		1	1
Completion of lower division requirements for a minor		6-20†	6-20†

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See page 96. Part of the work required for a teaching minor may be completed in the graduate year.

Requirements for the A. B. Degree with Major in	Language Arts		
	English	English	English
	General	with Secondary Credential	(without a teaching credential)
Upper Division			
Major:	Units	Units	Units
Engl. 101—Advanced Composition	3	3	—
Engl. 115—The English Language	3	—	—
Engl. 136A-136B—American Literature	6	—	—
Engl. 160—Chaucer	—	—	3
Engl. 162—Shakespeare	—	—	3
Electives in Upper Division English	—	—	18
Electives—Chosen from:			
Engl. 142A-B—The Novel	6	—	—
Engl. 153—The Age of Elizabeth			
Engl. 154—The Age of Swift and Pope			
Engl. 155—The Romantic Period			
Engl. 157—The Victorian Period			
Engl. 160—Chaucer			
Engl. 162—Shakespeare			
Electives—(English, speech, drama, radio or journalism)	—	6	—
Speech 102—Advanced Expression and Interpretation or Speech 103—Advanced Public Speaking	—	3	—
Speech 180—Speech Correction	—	3	—
Speech 126 or 127—Play Production	3	3	—
Other Requirements:			
Educ. 113—Psychological and Social Foundations of Education	5	5	—
Educ. 153—Audio-Visual Education	2	2	—
Educ. 175—Core Course in Secondary Education	5	5	—
Educ. 195E—The Teaching of English	2	2	—
or Educ. 195Sp—The Teaching of Speech	—	(2)	—
Completion of upper division requirements for a minor	0-6†	0-6†	†
Electives to total	124	124	124
Total upper division required	40	40	40
Scholarship Requirements:			
In all work taken	1.00	1.00	1.00
In major	1.00	1.00	1.00
In minor	1.00	1.00	—
In each Education course taken	1.00	1.00	—
For admission to the Graduate Division:			
In major	1.5	1.5	—
In minor	1.5	1.5	—
Graduate Year			
Elective in major field (upper division or graduate)	3	3	—
Educ. 265—Guidance in Education	2	2	—
Educ. 275—Seminar in Secondary Education	2	2	—
Educ. 340A-340B—Directed Teaching in the Secondary School	6	6	—
Elective in secondary subject field	3	3	—
Major, minor, or elective (upper division or graduate) to total	30	30	—
Scholarship Requirement (all work in graduate year)	1.75	1.75	—

† See page 96. Part of the work required for a teaching minor may be completed in the graduate year.

REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN SPEECH AND ENGLISH

(This curriculum is outlined in detail on page 82)

TWO-YEAR TERMINAL CURRICULUM IN JOURNALISM

RECOMMENDED SEQUENCE

Freshman Year		
	Sem. 1	Sem. 2
English 1A-1B (First-year Reading and Composition) -----	3	3
B.A. 2A (Typing I) -----	2	—
H.H. 1 (Personal Health and Safety) -----	—	2
Science elective -----	3	3
Pol. Sci. 51—(American Constitutional Government) -----	—	2
History 70 (United States History) -----	2	—
Art 50 (Photography) -----	—	2
Social Science elective -----	6	3
Phys. Educ. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
	16$\frac{1}{2}$	15$\frac{1}{2}$
Sophomore Year		
Journalism 20 (Newswriting) -----	3	—
Journalism 21 (Reporting) -----	—	3
Journalism 29 (Press Photography) -----	—	1
Economics 1A-1B (Principles) -----	3	3
B.A. 14A-14B (Accounting) -----	3	3
English 46A-46B (Survey of English Literature) -----	3	3
Science elective -----	3	3
Phys. Educ. (Activities) -----	$\frac{1}{2}$	$\frac{1}{2}$
	15$\frac{1}{2}$	16$\frac{1}{2}$

NOTE: Students with special interests in journalism which are not included in the suggested two-year curriculum are invited to consult with the journalism adviser. Satisfactory degree programs may be arranged with a group major, featuring journalism. (See page 154.)

REQUIREMENTS FOR

Junior High School Major	Minor	Minor in Journalism
Lower Division		Journalism 20___ 3 units
Eng. 1A-1B ___ 6 units	Eng. 1A-1B _____ 6 units	Journalism 21___ 3 units
Eng. 46A-46B_ 6 units	Recommended: Eng. 46A-46B.	
Upper Division		Journalism
12 units U. D. English	6 units U. D. English.	(U. D.) _____ 6 units
Recommended:	Recommended:	(May not include more than 3 units in either Journalism 27 or 127.)
Eng. 115 ___ 3 units	Eng. 115 _____ 3 units	
Eng. 136A or	Eng. 136A or	
136B ___ 3 units	136B _____ 3 units	
Eng. 162 ___ 3 units		
One of the later period courses __ 3 units		
Total units required ___24 units	12 units	12 units

Additional requirements for the junior high school credential are given in detail on pages 51-52.

Teaching Minors for Candidates for General Secondary Credential
English *Journalism*

English 1A-1B	6 units	English 1A-1B	6 units
Other courses approved by the Divisional Chairman	15 units	Other courses approved by the Divisional Chairman	15 units
Total units required	21 units	Total units required	21 units

DESCRIPTION OF COURSES**Lower Division****Subject A. English Composition (fall, spring) 3 units**

A study of the fundamentals of English grammar, usage, punctuation, and mechanics, with some practice in writing. Required of those who fail the test in "Subject A." Not applicable toward degree requirement in English.

Three one-hour periods per week.

1A. First-year Reading and Composition (fall, spring) 3 units

Emphasis on expository writing, with supplementary reading.

Prerequisite: The passing of the Subject A test, or a passing grade in the Subject A course.

Three one-hour periods per week.

1B. First-year Reading and Composition 3 units

An introduction to the study of literature with further training in writing.

Prerequisite: English 1A.

*** 8. Playwriting (fall) 3 units**

See Speech 30.

46A. Survey of English Literature (fall) 3 units

The beginning of English literature and the main aspect of its development down to the Restoration (1660).

Prerequisite: English 1B.

Three one-hour periods per week.

46B. Survey of English Literature (spring) 3 units

The leading movements in the development of English literature from the Restoration (1660).

Three one-hour periods per week.

Upper Division

English 1A-1B is prerequisite to all upper division courses in English.

101. Advanced Composition 3 units

Grammar, usage, and composition for prospective teachers of English.

Three one-hour periods per week.

*** 108. Advanced Playwriting (See Speech 130) 3 units**

Suggested as an elective; not a part of an English major or minor.

112. Phonetics (fall) 3 units

See Speech 170.

115. The English Language 3 units

A study of tendencies that have changed and are changing the language; designed to give some basis for deciding questions of grammar, usage, and pronunciation.

Three one-hour periods per week.

* Not given 1951-52.

- 136A. American Literature** **3 units**
 A study of American literature from Colonial times to the middle of the nineteenth century.
 Three one-hour periods per week.
- 136B. American Literature** **3 units**
 American literature from the middle of the nineteenth century to the present. A study and appraisal of authors and their works contributing to the American scene.
- *142A. The Novel** **3 units**
 The English novel from Defoe through Scott. Students will read and study the novel, its origin, its development as a literary form.
 Three one-hour periods per week.
- *142B. The Novel (fall)** **3 units**
 The English novel from Dickens to contemporary writers. This is a continuation of course 142A, though 142A is not a prerequisite to 142B.
 Three one-hour periods per week.
- *153. The Age of Elizabeth** **3 units**
 Prose and poetry, exclusive of the drama.
 Three one-hour periods per week.
- *154. The Age of Swift and Pope (fall)** **3 units**
 A study of English writers of the Augustan age in relation to the social and political history of the period.
 Three one-hour periods per week.
- *155. The Romantic Period (spring)** **3 units**
 English literature from 1784 to 1837. The contribution of the poets and prose writers of the romantic revolution to contemporary and modern thought.
 Three one-hour periods per week.
- 157. The Victorian Period (fall)** **3 units**
 English literature from 1837 to 1900. The writings of Carlyle, Arnold, Tennyson, Browning and later Victorians as interpretation of life in the nineteenth century and the present era.
 Three one-hour periods per week.
- * 160. Chaucer (fall)** **3 units**
- 162. Shakespeare (spring)** **3 units**
- 171. Survey of the Drama (See Speech 140)** **3 units**
- 178. Children's Literature (spring)** **3 units**
 A survey course intended to give an understanding and appreciation of the best literature for children of all ages. Required for candidates for the Kindergarten-Primary, the General Elementary and the General Junior High School Credentials. Not applicable toward an English major or minor.
 Three one-hour periods per week.
- 184. Twentieth Century Literature (spring)** **3 units**
 A study of current literary trends, and of leading modern writers in England and America, in selected novels, short stories, and critical essays.
 Three one-hour periods per week.

* Not given 1951-52.

JOURNALISM

Note: Ability to type is necessary in all journalism courses.

English 1A is prerequisite to all courses in journalism, except Journalism 27.

Lower Division**20. Newswriting****3 units**

A study of what constitutes constructive news, of the sources of news, and of the type of writing used in news stories.

Three one-hour periods per week.

21. Reporting**3 units**

The writing of news stories for the college paper and for the college news bureau.
Prerequisite: Journalism 20, or consent of instructor.

Three one-hour periods per week.

27. Journalism Laboratory**1-3 units**

A practical laboratory course under faculty supervision for the staffs of the student publications. Maximum degree credit to be allowed, three units.

Prerequisite: Consent of the instructor.

Three one-hour periods per week.

29. Press Photography*1 unit**

A study of the qualities in photography which are important to reproduction by the various methods of printing.

One one-hour period per week.

Prerequisite: Art 50 and consent of the instructor.

Upper Division**122. Copyreading****3 units**

The methods of editing newspaper copy and the writing of headlines.

Prerequisite: Journalism 20.

Three one-hour periods per week.

124. Feature Writing*3 units**

A study of the various types of feature articles and the writing of features by the student.

Prerequisite: Journalism 20.

Three one-hour periods per week.

125. Retail Advertising**3 units**

The planning and execution of advertising for retailers, the principles of advertising layout, the newspaper and other media, and the management of advertising accounts.

Prerequisite: Journalism 20.

Three one-hour periods per week.

126. Editorial Writing*3 units**

Discussion of current news and the writing of editorials on appropriate items.

Prerequisite: Journalism 20.

Three one-hour periods per week.

127. Journalism Laboratory**1-3 units**

A practical laboratory course under faculty supervision for the staffs of the student publications. Maximum degree credit to be allowed, three units.

Prerequisite: Journalism 20 or 27, or consent of the instructor.

Three one-hour periods per week.

* Not given 1951-52.

MODERN LANGUAGES

REQUIREMENTS FOR

<i>Minor in French</i>		<i>* Minor in Spanish</i>	
	<i>Units</i>		<i>Units</i>
Lower Division	French 1A-1B ----- 6 (Two years of high school French may be substituted for 1A-1B)	Spanish 1A-1B ----- 6 (Two years of high school Spanish may be substituted for 1A-1B)	
	French 2A----- 3	Spanish 2A----- 3	
	French 2B----- 3	Spanish 2B----- 3	
Upper Division	----- 9	----- 9	
Total units required	15-21		15-21

Teaching Minors for Candidates for General Secondary Credentials

	<i>French</i>	<i>* Spanish</i>
Lower Division	6-12 units (see above)	6-12 units (see above)
Upper Division	12 units	12 units
Total units required	18-24	18-24

FRENCH

Lower Division

- 1A. Elementary French (fall) 3 units

Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.

Four one-hour periods per week.

- 1B. Elementary French (spring) 3 units

Continuation of French 1A.

Prerequisite: French 1A or one year of high school French.

Four one-hour periods per week.

- 2A. Intermediate French (fall) 3 units

Reading of modern short stories, novels, plays, and works descriptive of French civilization. Review of essentials of grammar, conversation.

Prerequisite: French 1B or two years of high school French.

Three one-hour periods per week.

- 2B. Intermediate French (spring) 3 units

Continuation of French 2A.

Prerequisite: French 2A or equivalent.

Three one-hour periods per week.

Upper Division

- 101A-101B. Advanced Grammar, Composition, and Reading (year) 3-3 units

Review of the fundamentals of grammar; extensive study of advanced syntax; translation into French of moderately difficult English prose; intensive reading of literary texts with reports in French.

Prerequisite: French 2B or equivalent.

Three one-hour periods per week.

* The minors in Spanish have been temporarily discontinued.

105A-105B. Survey of French Literature (year) 3-3 units

A brief survey of French literature from its beginning to the present time. Extensive reading of works of representative authors of all periods.

Prerequisite: French 2B or equivalent.

Three one-hour periods per week.

SPANISH**Lower Division****1A. Elementary Spanish (fall) 3 units**

Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.

Four one-hour periods per week.

1B. Elementary Spanish (spring) 3 units

Continuation of Spanish 1A.

Prerequisite: Spanish 1A or one year of high school Spanish.

Four one-hour periods per week.

2A. Intermediate Spanish (fall) 3 units

Reading of modern short stories, novels, plays, and works descriptive of Latin-American civilization. Review of essentials of grammar, conversation.

Prerequisite: Spanish 1B or two years of high school Spanish.

Three one-hour periods per week.

2B. Intermediate Spanish (spring) 3 units

Continuation of Spanish 2A.

Prerequisite: Spanish 2A or equivalent.

Three one-hour periods per week.

Upper Division***101A-101B. Advanced Grammar, Composition and Reading (year) 3-3 units**

Review of the fundamentals of grammar; extensive study of advanced syntax; translation into Spanish of moderately difficult English prose; intensive reading of literary texts with reports in Spanish.

Prerequisite: Spanish 2B or equivalent.

Three one-hour periods per week.

***105A-105B. Survey of Spanish Literature (year) 3-3 units**

A brief survey of Spanish literature from its beginning to the present time. Extensive reading of representative authors of Spain and Latin America.

Prerequisite: Spanish 2B or equivalent.

Three one-hour periods per week.

* Not given 1951-52.

The Division of Natural Sciences

Biological Sciences
Physical Sciences

Mathematics
Engineering

OBJECTIVES

The objectives of the Division of Natural Sciences are to provide :

1. A general background in natural sciences for those training to become teachers in the elementary and secondary schools of the State.
2. Curricula leading to :
 - a. General secondary credential with major in life science (or physical science) and general science, enabling the student to teach in the secondary schools of the State ; this program involves a year of graduate work.
 - b. The B.S. degree in wildlife management.
 - c. The B.S. degree in fisheries.
 - d. The A.B. degree in biological sciences, with differentiated majors in biology, botany, and zoology, for :
 - (1) Students interested in research or graduate study in these fields.
 - (2) Candidates for state or federal civil service positions in the biological sciences.
 - e. The A.B. degree in premedical sciences.
3. Lower division preparatory or preprofessional curricular for students of agriculture, animal and plant science, dentistry, forestry, laboratory technology, nursing, optometry, pharmacy, veterinary science, pollution control.
4. Lower division curricula in mathematics and physical science for engineering
5. Minors in biology, botany, zoology, chemistry, wildlife management, and mathematics, designed to furnish a cultural background in the natural sciences and an appreciation of the scientific philosophy.

NATURAL SCIENCES

*Requirements for the A. B. Degree
with majors in
(Starred courses are recommended,
but not required)*

*Life and General Physical and General
Sciences Sciences
(General Secondary Credential)*

Lower Division		
Major:	Units	Units
Chem. 1A-1B—General Inorganic Chemistry-----	10	10
Phys. 2A-2B—General Physics—Lectures-----	6	6
Phys. 3A-3B—General Physics—Laboratory-----	2	2

General Education: (To be fulfilled in addition to requirements for the major)

Engl. 1A-1B—First-year Reading and Composition-----	6	6
H.H. 1—Personal Health and Safety-----	2	2
Literature, Philosophy, or Arts-----	6	6
(Fine and applied arts not to exceed three of the six.)		

Natural Sciences:

Biol. 10A-10B—General Biology-----	6	6
Elective in physical science-----	3	3
(Geol. 1A—General Geology recommended.)		

Physical Education Activities-----	2	2
------------------------------------	---	---

Psych. 1—General Psychology-----	3	3
----------------------------------	---	---

Social Sciences-----	9	9
----------------------	---	---

(Including fulfillment of requirement in United States history and Constitution. See page 50.)		
--	--	--

Spch. 1—Fundamentals of Speech-----	3	3
-------------------------------------	---	---

Restricted Electives-----	8	8
---------------------------	---	---

(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)

Other Requirements:

Art 50—Elementary Photography-----	3 *	3 *
Or. II—Orientation II-----	1	1
Completion of lower division requirements for a minor-----	6-20 **	6-20 **

Upper Division

Major:	Units	Units
Total units required-----	(21)	(21)
Physiol. 101—Human Physiology-----	5	5
Electives-----	15	15
Chosen from the following courses upon consultation with the adviser:		
Biol. 101—Marine Biology-----	x	-
Biol. 103—Microtechnique-----	x	-
Biol. 114—Hereditry and Evolution-----	x	-
Bot. 107—Plant Ecology-----	x	-
Bot. 110A-110B—Plant Taxonomy-----	x	-
Bot. 114—Advanced Ornamental Plants-----	x	-
Chem. 105—Quantitative Analysis-----	x	x
Chem. 108—Organic Chemistry Lectures-----	x	x
Chem. 109—Organic Chemistry Laboratory-----	x	x
Phys. 104A-B-C—Advanced General Physics-----	-	x
Phys. 105—Electrical Measurements-----	-	x
Phys. 135—Statics-----	-	x
Phys. 150—Advanced Radio-----	-	x

Requirements for the A. B. Degree
with majors in
(Starred courses are recommended,
but not required)

Life and General Physical and General
Sciences Sciences
(General Secondary Credential)

Upper Division—Continued

	Units	Units
Phys. 151—Electronics -----	-	x
Zool. 104—Field Zoology -----	x	-
Zool. 112—Invertebrate Zoology -----	x	-
Zool. 114—Comparative Anatomy of Vertebrates -----	x	-
Zool. 135—Mammalogy -----	x	-
Zool. 160—Embryology -----	x	-
Zool. 165—Ornithology -----	x	-
Zool. 170—Entomology -----	x	-
(Six units of nonprofessional courses in Wildlife Management may be substituted for six units of the courses listed above.)		

Minimum Biological Science required-----	18	3-5
Minimum Physical Science required-----	-	15-18

Other Requirements:

Educ. 113—Psychological and Social Foundations of Education -----	5	5
Educ. 153—Audio-Visual Education -----	2	2
Educ. 175—Course in Secondary Education-----	5	5
Educ. 195S—The Teaching of Science-----	2	2
Completion of upper division requirements for a minor -----	0-6 †*	0-6 †
Electives to total-----	124	124
Total upper division required-----	40	40

Scholarship Requirements:

In all work taken-----	1.00	1.00
In major and minor-----	1.00	1.00
In each education course taken-----	1.00	1.00
For admission to Graduate Division:		
In major -----	1.5	1.5
In all upper division work taken-----	1.5	1.5

Graduate Year

Upper Division or Graduate Courses in Science---	6	6
Educ. 265—Guidance in Education -----	2	2
Educ. 275—Seminar in Secondary Education-----	2	2
Educ. 340A-340B—Directed Teaching in the Sec- ondary School -----	6	6
Major or minor or electives (upper division or graduate courses) to total at least-----	30	30
Scholarship Requirement (all work in graduate year) -----	1.75	1.75

† Students majoring in physical and general sciences are required to complete a teaching minor in mathematics.

* See page 96. Part of the work required for a teaching minor may be completed in the graduate year. Students majoring in physical and general sciences are required to complete a teaching minor in mathematics.

BIOLOGICAL AND PREMEDICAL SCIENCES

Requirements for the A.B. Degree with majors in (Starred courses are recommended, not required)	Liberal Arts			
	Biology	Botany	Zoology	Premedical
	(Without a teaching credential)			
	Units	Units	Units	Units
Biological Sciences:				
Major:				
Biol. 10A-10B—General Biology	6	—	—	—
Bot. 1A-1B—General Botany	—	8	—	—
Chem. 1A-1B—General Chemistry	10	10	10	10
Phys. 3A-3B—General Physics Laboratory	2	2	2	2
Zool. 1A-1B—General Zoology	—	—	8	8
General Education: (To be fulfilled in addition to all requirements for the major)				
Engl. 1A-1B—First-year Reading and Composition	6	6	6	6
H.H. 1—Personal Health and Safety	2	2	2	2
Literature, Philosophy or the Arts (Fine and applied arts not to exceed three of the six)	6	6	6	6
Natural Science:				
Phys. 2A-2B—General Physics Lecture	6	6	6	6
Elective in Biological Science	3	3	3	3
Physical Education Activities	2	2	2	2
Psych. 1—General Psychology	3	3	3	3
Social Sciences (Including fulfillment of requirement in United States history and Constitution. See page 50.)	9	9	9	9
Spch. 1—Fundamentals of Speech	3	3	3	3
Restricted Electives (Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)	5	5	5	5
Other Requirements:				
Foreign Language	—	—	—	10 *

<i>Requirements for the A.B. Degree with majors in (Starred courses are recommended, not required)</i>		<i>Liberal Arts</i>			
		<i>Biology</i>	<i>Botany</i>	<i>Zoology</i>	<i>Premedical</i>
		<i>(Without a teaching credential)</i>			
		Upper Division			
		<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
Major:					
Minimum units required	(24 ¹)	(24)	(24)	(24)	(24)
(Required courses are indicated by unit value; acceptable courses by letter "x." Zoology majors must complete at least three courses from those marked "3x" or "5x")					
Biol. 101—Marine Biology	x	x	x	—	—
Biol. 103—Micro-Technique	x	x	x	3	3
Biol. 114—Heredity and Evolution	x	x	3x	3	3
Biol. 199—Special Problems in Biology	x	—	—	—	—
Bot. 107—Plant Ecology	x	x	—	—	—
Bot. 110A-110B—Plant Taxonomy	x	x	—	—	—
Bot. 114—Advanced Ornamental Plants	x	x	—	—	—
Bot. 199—Special Problems in Botany	x	x	—	—	—
Physiol. 101—Human Physiology	5	x	5x	5	5
Fish. 136A-136B—Ichthyology	x	—	x	—	—
Fish. 141—Hydrobiology	x	—	x	—	—
Zool. 104—Field Zoology	x	—	3x	x	x
Zool. 114—Comparative Anatomy of Vertebrates	x	—	3x	3	3
Zool. 135—Mammalogy	3	—	x	—	—
Zool. 160—Embryology	x	—	3x	3	3
Zool. 165—Ornithology	x	—	x	—	—
Zool. 170—Entomology	x	x	x	x	x
Zool. 199—Special Problems in Zoology	x	—	x	—	—
Elective in Biological Sciences	—	—	—	3	3
Six units of nonprofessional courses in wildlife management may be substituted for six units of the courses listed above, for biology and zoology majors.)					
Chem. 105—Quantitative Analysis	—	—	—	3	3
Chem. 108—Organic Chemistry Lectures	3	3	3	3	3
Chem. 109—Organic Chemistry Laboratory	—	—	—	3	3
Electives to total	124	124	124	124	124
Total upper division required	40	40	40	40	40

Scholarship requirements:

In all work taken	1.00	1.00	1.00	1.00
In major	1.00	1.00	1.00	1.00

Note for Premedical Students—

Minimum requirements for admission to Class A medical colleges have been set up by the Council on Medical Education of the American Medical Association. Most medical schools, however, set up admission standards in excess of these minimums. For premedical students, a broad general education is prescribed, with emphasis on biological and physical sciences. This is probably best done by completing the requirements for a bachelor's degree before entering medical school. In some instances, students will be accepted by medical schools after the completion of 90 semester units of college work which includes the required courses.

The student should check the institutional requirements of the medical school he expects to enter. If he expects to transfer to the University of California, he should follow the requirements for their associate in arts degree, and must also include 8 units in a modern foreign language as part of the 16 units required.

¹ Biology majors should not take more than 15 units in either zoology or botany.

Since acceptance by the medical school is conditioned largely upon scholarship, particularly in the required subjects, premedical students are urged to bear in mind the importance of distinctly high scholarship in the undergraduate work.

Many medical schools are now requiring all candidates to have taken the medical college admission test during the year previous to expected admission. The student should consult his adviser about this test.

The prescribed course of study meets the standards established by the American Medical Association as well as the requirements for graduation from this college.

WILDLIFE MANAGEMENT AND FISHERIES

High school students who plan to pursue wildlife management will find it advantageous to have completed elementary algebra, plane geometry, and trigonometry in high school.

Junior college or transfer students who plan to enroll in wildlife management will be able to complete the course in a minimum amount of time if elementary algebra, plane geometry, trigonometry, general chemistry, English, statistics, general botany, and/or general zoology have been completed in the lower division.

Requirements for B.S. Degree with Major in		Management Wildlife	Fishes Fish-
Lower Division			
Major:		Units	Units
W.M. 2—Natural Resource Conservation	-----	3	3
W.M. 5—Wildlife Techniques	-----	3	—
W.M. 20—Principles of Wildlife Management	-----	3	3
F. 30—Hatchery Biology	-----	—	2
Bot. 1B—General Botany	-----	4	4
Chem. 1B—General Chemistry	-----	5	5
Zool. 1A-1B—General Zoology	-----	8	8
General Education (to be fulfilled in addition to all requirements for the major.)			
Engl. 1A-1B—First-year Reading and Composition	-----	6	6
H.H. 1—Personal Health and Safety	-----	2	2
Literature, Philosophy or Arts	-----	6	6
(Fine and applied arts not to exceed three of the six)			
Natural Sciences	-----	9	9
Bot. 1A—General Botany	-----	4	
Chem. 1A—General Chemistry	-----	5	
Physical Education Activities	-----	2	2
Psych. 1—General Psychology	-----	3	3
Social Sciences	-----	9	9
(In at least two social science fields, including :			
Econ. 1A—Principles of Economics			
Econ. 40—Elementary Statistics			
Fulfillment of requirement in United States history and Constitution. See page 50.)			
Spch. 1—Fundamentals of Speech	-----	3	3
Restricted Electives	-----	5	5
(Chosen from the above general education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
Agric. 1—Agronomy	-----	3	—

<i>Requirements for B.S. Degree with Major in</i>	<i>Wildlife Management</i>	<i>Fisheries</i>
Upper Division		
Major:	<i>Units</i>	<i>Units</i>
F. 131—Management of Game Fish	—	3
F. 132—Commercial Fisheries	—	3
F. 136A-136B—Ichthyology	—	6
F. 141—Hydrobiology	—	4
W.M. 150—Management of Big Game	3	—
W.M. 152—Management of Fur Bearers	3	—
W.M. 171A—Management of Waterfowl	3	—
W.M. 171B—Management of Upland Game Birds	3	—
Biol. 101—Marine Biology (<i>or</i> Zool. 112, Invertebrate Zoology)	—	3
Biol. 103—Microtechnique	—	3
Biol. 114—Heredity and Evolution	3	3
Bot. 110A-110B—Plant Taxonomy	6	—
Physiol. 101—Human Physiology	3	5
Zool. 114—Comparative Anatomy of Vertebrates	—	3
Zool. 135—Mammalogy	3	—
Zool. 160—Embryology	—	3
Zool. 165—Ornithology	3	—
Zool. 170—Entomology	3	—
Other Requirements:		
Agric. 104—Range and Farm Livestock Management	3	—
Electives to total	128	128

Scholarship Requirements:

In all work taken	1.00	1.00
In major	1.00	1.00

Recommended Electives (Wildlife Management) :

Additional English composition, journalism, speech, plant ecology, law enforcement, typing, comparative anatomy of vertebrates, organic chemistry, trigonometry, embryology, nutrition, elementary photography, radio workshop.

Recommended Electives (Fisheries) :

Comparative anatomy of vertebrates, embryology, advanced marine biology, human anatomy, micro-technique, business correspondence, organic chemistry, nature drawing, typing.

REQUIREMENTS FOR

<i>Junior High School Major in Biological Sciences</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	
Biol. 10A-10B	A minimum of 20 units in courses approved by the divisional chairman.
Elective	
Upper Division	
12 units of Upper Division Biology, Botany, or Zoology	
Total units required	
Additional requirements for the junior high school credential are given in detail on pages 51-52.	Total units required

20

LIBERAL ARTS MINORS

<i>Biology Minor</i>		<i>Botany Minor</i>	
Lower Division		Botany 1A-1B	8 units
Biology 10A-10B	6 units		
Upper Division			
Chosen from:		Chosen from:	
Biology		Biol. 101	
Botany, or		Biol. 114, or	
Zoology	6 units	Any U. D. Botany	6 units
Total units required	12 units	Total units required	14 units

The Biology minor is recommended for credential candidates but is not advised for students planning to do graduate work at a university.

<i>Zoology Minor</i>	<i>Chemistry Minor</i>	<i>Wildlife Management Minor</i>
Lower Division	Chemistry	Six units, including
Zoology 1A-1B	1A-1B	W. M. 2
8 units	10 units	
or		
Biology		
10A-10B		
6 units		
and Elective		
3 units		
Upper Division		
6 units chosen from—	Chemistry 108	3 units
Any U. D. Zoology	Chemistry 105	
Biology 101	or	
Biology 114	Chemistry 109	3 units
6 units		
Total units	Total units	Six units, including
required	required	W. M. 120
14-15 units	16 units	
		Consult department for
		choice of courses
		Total units
		required
		12 units

DESCRIPTION OF COURSES

BIOLOGICAL SCIENCES

NOTE: A maximum of 16 semester units will be allowed toward the bachelor's degree in the introductory year courses in biology, botany, and zoology.

AGRICULTURE

Lower Division

- *1. Agronomy (spring) 3 units

Principles of the culture and distribution of field crops. Seed selection, maintenance of soil fertility, preparation of the seed bed. Important factors in the development of typical cereal and forage crops.

Three one-hour periods per week.

- *4. Elementary Animal Husbandry (fall) 3 units

Origin, characteristics and adaptations of the more important breeds of farm animals; their care and environmental influences affecting their development. Brief survey of the economics of animal products.

Upper Division

100. Elementary Soil Science (spring) 3 units

Introduction to the development and characteristics of soils with emphasis on soil conservation.

Three one-hour periods per week.

* Not given 1951-52.

- 104. Range and Farm Livestock Management (fall)** **3 units**
 General principles and practices underlying the management of range and farm livestock.
 Three one-hour periods per week.
 Prerequisite: Agriculture 1.

ANTHROPOLOGY

- 1A. Physical Anthropology (fall)** **3 units**
 The origin and development of human races, the nature of man, and his place in the biological world.
 Three one-hour periods per week.

BACTERIOLOGY

- 1. General Bacteriology (fall)** **3-5 units**
 Morphology, physiology, and classifications of bacteria, yeasts and molds. Laboratory training in micro-technique, preparation of culture media, sterilization, inoculation, identification. Bacteriology of air, water, soil, and dairy products. The rudiments of infection and bacterial diseases.
 Three one-hour lectures and two three-hour laboratory periods per week.

Upper Division

- 101. General Bacteriology** **3-5 units**
 Upper division students may receive upper division credit for Bacteriology upon the consent of the instructor and the completion of assigned individual problems.

BIOLOGY

Lower Division

- 10A-10B. General Biology (year)** **3-3 units**
 An outline of the main facts and principles of plant and animal life. Lectures and demonstrations on the fundamental properties of living things; their functions, structures, classifications, life histories, and relation to human life.
 Not to be taken concurrently with, or subsequently to either Zoology 1A-1B or Botany 1A-1B.
 Two one-hour periods and one three-hour laboratory period per week.

Upper Division

Prerequisite to all upper division biology courses is either Biology 10A-10B, Botany 1A-1B, or Zoology 1A-1B.

- 101. Marine Biology (summer session)** **3 units**
 The habits, classification, development, and adaptations of marine life, with particular reference to conditions of the Humboldt coast.
 Two one-hour lectures and one three-hour laboratory period or field trip per week.

- 103. Microtechnique (fall)** **2 or 3 units**
 Preparation of plant and animal tissue for microscopical study, including killing, fixing, staining, and sectioning methods.
 Two or three three-hour periods per week.

- 114. Heredity and Evolution (fall)** **3 units**
 The facts of heredity and Mendel's laws with the application of these laws to plants and animals, including man, are taken up through lectures and assigned reading. Study is made of the various theories of evolution.
 Three one-hour periods per week.

190. Elementary School Science (fall)**2 units**

(See Education 190S)

Objectives, methods, and content of the elementary school science program.

Not applicable toward major or minor.

Two one-hour periods per week.

199. Special Problems (fall, spring)**1-3 units**

Limited to majors in biological sciences. Student and problem to be approved by the department. Student carries on independent study and investigation in consultation with instructor assigned to him.

BOTANY

NOTE.—Arcata is an excellent location for all kinds of botanical study. Ocean reefs are located within four miles, a heavy coniferous forest adjoins the campus on the east, and within forty miles one may reach all altitude ranges from sea level to five thousand feet.

Botany courses are fundamental for all students in the plant sciences and are basic courses for such occupations as the following: plant pathologist, bacteriologist, forester, forest pathologist, farm adviser, high school science teacher, agriculturist, nurseryman, landscape gardener or architect, florist, seedsman, horticulturist, etc.

The facilities of the department include well equipped laboratories, an herbarium of local flora, and a greenhouse.

Lower Division**1A-1B. General Botany (year)****4-4 units**

First semester: The fundamentals of the morphology and physiology of flowers, fruit, seeds, seedlings, roots, stems, and leaves.

Second semester: Lower orders of plants, introduction to the taxonomy of the flowering plants.

Field trips will be made to points near the College, and a large part of the material used in the laboratory will be collected by the students.

Two one-hour lectures and two three-hour laboratory periods per week.

Upper Division

Prerequisite to all upper division courses in Botany is Botany 1A-1B, or Biology 10A-10B and consent of instructor.

107. Plant Ecology (fall)*3 units**

A general survey of plants and plant associations in relation to environment. Particular attention will be given to the study of successional and habitat factors as determining the local distribution of native plants as well as an adaptation of native plants to this area.

Three one-hour periods per week.

110A-110B. Plant Taxonomy (year)**3-3 units**

First semester: Forest botany with field identification, and a critical study of the characters and habitats of gymnosperms.

Second semester: A study of representative orders of flowering plants, adaptation, structure, classification, and geographical distribution; range botany.

One one-hour lecture and two three-hour laboratory periods per week.

114. Advanced Ornamental Plants (spring)*3 units**

Study of the more common ornamental trees and shrubs, with principles of landscaping. Greenhouse work in various methods of propagation, potting, culture, etc.

One lecture and two three-hour laboratory periods per week.

199. Special Problems**1-3 units**

Individual work in botany for upper division students who show special aptitude. Conference, reading, and research.

* Not given 1951-52.

FISHERIES

Lower Division

- 30. Hatchery Biology (spring) 2 units**

The artificial propagation of trout, salmon and steelhead. Water manipulation, disease control to be covered. Laboratory periods are conducted in the fish hatchery. Each student will have the personal responsibility for rearing several thousand fish. One lecture and two two-hour laboratory periods per week.

Upper Division

- 131. Management of Game Fish (spring) 3 units**

The fresh-water game fishes of North America with special reference to trout and salmon. Stream and lake management and farm fish pond management.

Two one-hour lectures and one three-hour laboratory period per week.

- 132. Commercial Fisheries (fall) 3 units**

The biology and management of important marine fish and shellfish. Trips at sea on commercial vessels to observe harvesting methods.

Two one-hour lecture periods and one three-hour laboratory period per week.

Prerequisite: W.M. 20.

- 136A-136B. Ichthyology (year) 3-3 units**

The classification, evolution, distribution, anatomy, physiology, and ecology of fishes. Particular attention to groups that are of economic and recreational importance.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: Zool. 1A-1B.

- 141. Hydrobiology (fall) 4 units**

The study of the relationships between aquatic organisms and their environment. Deals with physical, chemical, and biological phenomena of fresh and marine waters. Stream and lake surveys and pollution studies are included in field work.

Two one-hour lectures and two three-hour laboratory periods per week.

Prerequisite: Chem. 1A or Chem. 2A.

- 199. Special Problems 1-3 units**

Individual study on selected problems in the fisheries field for upper division students who have demonstrated outstanding ability and interest.

PHYSIOLOGY AND ANATOMY

Lower Division

- 1. Elementary Physiology (spring) 3-5 units**

A general introductory course on human physiology. (May be taken as a lecture course only, for three units.)

Three one-hour lectures and two three-hour laboratory periods per week.

- 66. Human Anatomy (spring) 3 units**

Demonstration and laboratory study of human dissections, models, and prepared microscopic slides. Designed particularly for nurses and Physical Education majors.

Prerequisite: Zoology 1A.

One one-hour lecture and two three-hour laboratory periods per week.

Upper Division

- 101. Human Physiology (spring) 3-5 units**

A more advanced course for upper division students.

- 153. Physiology of Exercise 3 units**

See PE 153.

WILDLIFE MANAGEMENT

Lower Division

2. Natural Resource Conservation (fall)

3 units

The broad aspects of natural resource conservation, with stress on the interaction of the many agencies concerned; modern conservation methods, and the history of wildlife management. Organized to provide teachers with materials for teaching good conservation habits.

Three one-hour periods per week.

5. Wildlife Techniques (spring)

3 units

Designed to teach wildlife students the diversified and practical duties required of them. Collection, preparation of museum specimens, knot-tying, ballistics, evidence collection, breeds of dogs, fishing and trapping techniques, census methods, and firearms safety.

Two one-hour lectures and one three-hour laboratory period per week.

20. Principles of Wildlife Management (fall)

3 units

An intensive study of wildlife management practices. The theory and application of scientific research as it applies to game animals. Measurement of game and fish populations and productivity. Economic aspects of game populations. Basic wildlife philosophy.

Upper Division

120. Principles of Wildlife Management (fall)

3 units

See W.M. 20.

Students *minoring* in Wildlife may receive upper division credit for this course. Major students take it in the lower division.

150. Management of Big Game (fall)

3 units

Species of big game mammals; their life histories, distribution, management, conservation, values. Field trips for the study of important species in their natural habitats.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: Zoology 135 and W.M. 20.

152. Management of Furbearers (fall)

3 units

Species of furbearers; their life histories and management. Emphasis on wild species with field trips to local fur farms.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisites: W.M. 20 and Zool. 1A-1B.

171A. Management of Waterfowl (fall)

3 units

Waterfowl, and allied species, their life histories, ecology, and management in North America. Operation of duck banding station along with practical study of the important waterfowl food and cover plants. Refuge administration, practices, and management.

Two one-hour lectures, and one three-hour laboratory period per week.

Prerequisite: W.M. 20 and Zool. 1A-1B.

171B. Management of Upland Game Birds (spring)

3 units

Intensive study of upland game birds, their life histories and management in the United States. Liberation, population estimates and rearing. Each student will have a personal responsibility in rearing about 800 pheasants a season in the college rearing pens.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisite: Zoology 165 and W.M. 20.

199. Special Problems

1-3 units

Individual study on selected problems in the Wildlife field for upper division students who have demonstrated outstanding ability and interest.

NOTE: For Game Law Enforcement, see Sociology 8, Sociology 108.

ZOOLOGY

Lower Division

1A-1B. General Zoology (year)

4-4 units

A year course dealing with principles of animal biology together with a review of representative animal forms.

Two one-hour lectures and two three-hour laboratory periods per week.

Upper Division

Prerequisite to all upper division courses is Zoology 1A-1B, or Biology 10A-10B and consent of instructor.

104. Field Zoology (fall or summer session)

3 units

Collection, identification, and preservation of common invertebrates and vertebrates of Humboldt Bay region. Discussion of ecological relationships. Each student works on an individual problem.

Two one-hour lectures and one three-hour laboratory period per week.

112. Invertebrate Zoology (fall)

3 units

A study of animals without backbones, with special reference to the natural history and classification of the animals of the seashore.

Two one-hour lectures and one three-hour laboratory period per week.

114. Comparative Anatomy of Vertebrates

3 units

Two one-hour lectures and one three-hour laboratory period per week.

*135. Mammalogy (fall)

3 units

Study of the classification, anatomy, distribution, and life histories of mammals.

Two one-hour lectures and one three-hour laboratory period per week.

*160. Embryology (spring)

3 units

The maturation of egg and sperm; fertilization; and the early development of the amphibian, chick, and mammal.

One one-hour lecture and two three-hour laboratory and demonstration periods per week.

165. Ornithology (spring or summer session)

3 units

Classification, life histories, migration, habits, and special modifications of birds. Identification in field and laboratory.

Two one-hour lectures and one three-hour laboratory period per week.

170. Entomology (spring)

3 units

The classification, life histories, distribution, and control of insects, with special application to agriculture and game management.

Two lectures and one three-hour laboratory period.

199. Special Problems

1-3 units

Individual work in zoology for upper division students who show special aptitude. Conference, reading, and research.

Graduate Division

Biology 201A-201B. Advanced Field Biology

3-3 units

Original study on special topics in the field and laboratory. Research on life histories, distributional problems, and classification. (Special attention paid to the life of the area between Mad River and the Trinity River.)

Botany 212. Marine Algae

3 units

Taxonomy, life histories, and relationships of the marine algae of the Pacific Coast.

Zoology 212. Advanced Marine Biology

3 units

An advanced course dealing with problems in marine ecology, classification, and life histories.

* Not given 1951-52.

PHYSICAL SCIENCES**5A-5B. Fundamentals of the Physical Sciences (year) 3-3 units**

First Semester: Astronomy and weather, light and sound, geology.

Second Semester: Practical application; communication; transportation.

5A is not prerequisite to 5B.

Two one-and-one-half-hour lectures or demonstration periods per week.

CHEMISTRY**Lower Division****1A-1B. General Inorganic Chemistry (year) 5-5 units**

The fundamental concepts of chemistry, with emphasis on the relation of chemical behavior to atomic structure.

Prerequisites: High school chemistry or physics, and at least two years of high school mathematics, or four years of high school mathematics.

Three one-hour lecture and two three-hour laboratory periods per week.

2A-2B. Introduction to Chemistry (year) 3-3 units

An elementary course in general chemistry, designed for majors in nursing, physical education, and home economics. Emphasis on chemical principles rather than mathematical applications.

Two lectures and one three-hour laboratory period per week.

(Chemistry 2B will be given only in alternate years).

Upper Division**105. Quantitative Analysis (fall) 3 units**

Principles and methods of quantitative analysis. Study of methods used in industrial, agricultural and medical work.

One lecture and two three-hour laboratory periods per week.

Prerequisite: Chemistry 1B with grade of "C" or higher.

108. Organic Chemistry Lectures (spring and summer session) 3 units

A survey of the carbon compounds.

Prerequisite: Chemistry 1A or Chemistry 2A-2B.

Three one-hour lecture periods per week.

109. Organic Chemistry Laboratory (spring) 3 units

Study of the carbon compounds in the laboratory. Taken concurrently with or following Chemistry 108.

Three three-hour laboratory periods per week.

GEOLOGY**1A. General Geology (spring) 3 units**

A survey of the nature and structure of the material composing the earth and of the various processes which have shaped or are still shaping the earth.

Three one-hour periods per week and field trips.

PHYSICS**Lower Division****2A-2B. General Physics Lecture (year) 3-3 units**

A general survey of physics for nonengineering students. Less emphasis is placed on the quantitative aspect of the subject and the mathematical treatment is minimized.

Three one-hour lecture and demonstration periods and one one-hour discussion period per week.

Prerequisite: Mathematics C. (May be taken concurrently.)

- 3A-3B. General Physics Laboratory (year)** **1-1 unit**
 Experimental work in mechanics, properties of matter, heat, sound, light, magnetism, and electricity. To accompany Physics 2A-2B.
 One three-hour laboratory period per week.
- 4A. General Physics (spring)** **4 units**
 Mechanics and properties of matter.
 Three lectures and one three-hour laboratory period per week.
 Prerequisite: Mathematics 3A-3B, or its equivalent.
 Mathematics 3B may be taken concurrently.
- 4B. General Physics (fall)** **4 units**
 Magnetism, electricity, and modern physics.
 Prerequisite: Physics 4A. Mathematics 4A or 104A may be taken concurrently.
 Three lectures and one three-hour laboratory period per week.
- 4C. General Physics (spring)** **4 units**
 Wave motion, heat, sound, and light.
 Prerequisite: Physics 4A. Mathematics 4B or 104B may be taken concurrently.
 Three lectures and one three-hour laboratory period per week.
- 15. Elementary Physics of Sound and Color (fall)** **3 units**
 Science of sound, musical instruments, and acoustics, theory of color. For art and music majors.
 Three one-hour periods per week.
- 20. Elementary Photography** **3 units**
 See Art 50.
- 21. Advanced Photography** **2 or 3 units**
 See Art 51.
- 30. Elementary Meteorology (fall or summer session)** **3 units**
 Absorption and distribution of solar energy; structure and dynamics of the atmosphere; and methods of recording and predicting the weather. Designed especially for students in aeronautics.

Upper Division

- 104A-104B-104C. General Physics (spring, fall, spring)** **4-4-4 units**
 See Physics 4A-4B-4C. For General Secondary Credential candidates only.
- 105. Electrical Measurements** **3 units**
 Theory and practice in methods of measurement of resistance, electromotive force, capacitance, inductance and frequency; using direct current, and alternating current of both audio and radio frequency.
 Nine hours of laboratory periods per week.
 Prerequisite: Mathematics 4B, Physics 4A-4B-4C or equivalent.
- 135. Statics (spring)** **3 units**
 See Engineering 35. For General Secondary Credential candidates only.
- 150. Advanced Radio (fall)** **3 units**
 See Industrial Education 150. For General Secondary Credential candidates only.
- 151. Electronics (spring)** **2-3 units**
 Nonradio applications of electronic tubes; theory and operation. One lecture and Two three-hour laboratory periods per week.
 Prerequisite: One year of general physics.

ENGINEERING

- 1A-1B. Plane Surveying (year)** **3-3 units**
Principles, field practice, calculation, and mapping.
Prerequisite: Plane trigonometry and Industrial Education 7A or its equivalent.
Two one-hour lecture and one three-hour laboratory periods per week.
- 8. Materials of Engineering Construction** **2 units**
Structural properties and adaptability of various materials.
Prerequisite: Sophomore standing in Engineering.
Two one-hour periods per week.
- 22. Engineering Drawing (spring)** **2 units**
Fundamentals of engineering drawing. Covers orthographic projection, geometrical construction, pictorial drawing and sketching, sectioning, fasteners, and simple working drawings.
Prerequisite: Ind. Educ. 7A (or a year of high school mechanical drawing).
Six hours per week, lecture and drafting.
- 23. Descriptive Geometry (fall)** **2 units**
Principles of descriptive geometry and the solution of three-dimensional problems. Applications in various branches of engineering.
Prerequisite: Engineering 22.
Two one-hour lectures and two two-hour drafting periods per week.
- 24. Advanced Engineering Drawing (spring)** **2 units**
Freehand sketching in orthographic and pictorial projections; working drawings; structural detailing; electrical and piping layouts; and introduction to graphic integration and differentiation.
Prerequisite: Engineering 23.
Six hours per week, lecture and drafting.
- 35. Engineering Statics (spring)** **3 units**
Forces and force systems, equilibrium conditions, trusses and frames, friction, first and second moments of areas, moments of inertia of masses.
Prerequisite: Physics 4A and Mathematics 4A, or 104A, 4B or 104B. (104B may be taken concurrently.)
Three one-hour periods per week.
- 40. Engineering Metallurgy (fall)** **3 units**
Structure of metals and alloys. Properties of metals and alloys as related to their structure and composition.
Prerequisite: Physics 4A.
Two lectures and one three-hour laboratory period per week.
- 41. Manufacturing Processes (spring)** **4 units**
Nonmetallic materials used in manufacturing and their processing, plastics, and wood products; casting and forming processes. Use of precision gauges and standard machine tools. Welding. Decorative and protective coatings.
Prerequisite: Engineering 23 and 40.
Two lectures and two three-hour laboratory periods per week.

MATHEMATICS

REQUIREMENTS FOR

<i>Junior High School Major</i>	<i>Minor in Mathematics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	A minimum of 20 units in courses approved by the instructor.
Math. 3A-3B----- 6 units	Math. 3A-3B----- 6 units	
Electives ----- 6 units		
Upper Division	Upper Division	
Math. 101A-101B 6 units	Math. 104A-104B 6 units	
Math. 104A-104B 6 units		
Total units required ---24 units	Total units required ---12 units	Total units required ---20 units

NOTE: Other requirements for the junior high school credential are given on pages 51-52.

DESCRIPTION OF COURSES

Lower Division

If the student has not had elementary algebra and plane geometry in high school, it is necessary that he pass courses in these subjects if he is a candidate for the A.B. or the B.S. degree. Subcollegiate, noncredit courses in Mathematics A (Elementary Algebra), and Mathematics B (Plane Geometry) will be offered whenever there is sufficient demand.

C. Trigonometry (fall) 3 units

Plane trigonometry and spherical right triangles.

Prerequisite: Plane geometry and one and one-half years of high school algebra or Mathematics D.

Three one-hour periods per week.

D. Intermediate Algebra (fall) 3 units

Quadratic equations; exponents and radicals; theory of equations; elementary determinants; progressions; and the binomial theorem. Not applicable toward a minor in mathematics.

Prerequisite: One year of high school algebra.

Three one-hour periods per week.

†E. Solid Geometry (spring) 2 units

Prerequisite: Elementary algebra and plane geometry.

Two one-hour periods per week.

1. College Algebra (spring) 3 units

Theory of equations; determinants; equations of third and fourth degrees.

Prerequisite: Mathematics C and D, or equivalent.

Three one-hour periods per week.

2. Mathematics of Finance (spring) 2 units

See Business Administration 15.

3A. Analytic Geometry and Calculus (fall) 3 units

Elements of analytic geometry and differential calculus. Also a survey of the principles of integral calculus, with applications to mechanics.

Prerequisite: Mathematics C.

Three one-hour periods per week.

† Given if sufficient demand.

3B. Analytic Geometry and Calculus (spring)**3 units**

A continuation of differential and integral calculus unified with analytic geometry. This course also includes an introduction to the calculus of vectors, and polar coordinates.

Prerequisite: Mathematics 3A.

Three one-hour periods per week.

50. Slide Rule Computation (fall)**1 unit**

Theory and practice of the slide rule, from simple multiplication and division through trigonometric calculations and exponential equations.

One one-hour period per week.

Upper Division***101A. Elementary Mathematics for Advanced Students (fall)****3 units**

Selected topics in algebra and geometry with particular emphasis upon historical development. Designed for students who are preparing to teach mathematics in secondary schools.

Prerequisite: Mathematics 104A-104B, 1.

Three one-hour periods per week.

101B. Elementary Mathematics for Advanced Students (spring)*3 units**

A continuation of course 101A.

Prerequisite: Mathematics 104A-104B, 1. 101A is not prerequisite to 101B.

Three one-hour periods per week.

104A-104B. Integral Calculus and Solid Analytics (year)**3-3 units**

First semester continues development of integration and series.

Second semester continues partial differentiation, quadric surfaces and multiple integration.

Prerequisite: Mathematics 3A-3B.

Three one-hour periods per week.

* Not given 1951-52.

The Division of Social Sciences

Business
Economics

Geography
History
Philosophy

Political Science
Sociology

OBJECTIVES

The objectives of this division are:

1. To contribute to the general education of all students, especially to an understanding of those institutions and problems that relate to the intelligent exercise of the duties of citizenship. This objective is especially important for future teachers.
2. Curricula leading to
 - a. The master of arts degree in the Social Sciences.
 - b. General Secondary Credential, authorizing service in the secondary schools of the State. This program involves a year of graduate work. Majors are available in the social sciences and business education.
 - c. The A.B. degree with majors in
 - (1) Social sciences, providing a cultural education emphasizing the social studies.
 - (2) Social service, for those interested in social welfare work.
 - (3) Economics, affording preparation for graduate study or employment in industry or government service.
 - (4) History, for students interested in graduate work in this specialized field.
 - (5) Business Administration, for those seeking managerial positions in business or government service.
 - (6) Business education, with the Special Secondary Credential, authorizing the holder to teach business subjects in the secondary schools of California.
 - (7) Secretarial science for the training of executive secretaries.
3. One- and two-year terminal vocational courses in Stenographic and Secretarial Training, and General Business.

THE MASTER OF ARTS DEGREE

The Master of Arts Degree in the Social Sciences will be conferred upon students who meet the specific requirements, described in detail on pages 36-38.

SOCIAL SCIENCES

*Requirements for the A.B. Degree and a Fifth Year Leading to the General
Secondary Credential With a Major in Social Sciences*

Lower Division	
Major:	Units
Econ. 1A-1B—Principles of Economics	6
Hist. 4A-4B—History of Western Civilization	6
General Education: (To be fulfilled in addition to all requirements for the major)	
Engl. 1A—First-year Reading and Composition	3
H. H. 1—Personal Health and Safety	2
Literature, Philosophy or the Arts	6
(Fine and applied arts not to exceed three of the six)	
Natural Sciences	9
(Including one biological and one physical science)	
Physical Education Activities	2
Psych. 1—General Psychology	3
Social Sciences	9
(Including:	
Pol. Sci. 1A-1B—Introduction to Government, or	
Soc. 1A-1B—Introduction to Sociology	
Fulfillment of requirement in United States history and Constitution.	
See page 50.)	
Spch. 1—Fundamentals of Speech	3
Restricted electives	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)	
Other Requirements:	
Or. II—Orientation II	1
Completion of lower division requirements for a minor	6-20†

Upper Division	
Major:	Units
U. D. Economics—Electives	6 1
U. D. History—Electives	6 1
U. D. Economics or History	12
NOTE: If the student elects history as his field of emphasis, his program must include the following:	
Hist. 197—Aids to Historical Research or	
Hist. 198—History and Historians	1 unit
Hist. 199A or 199B—Special Studies in History	2 units
Other Requirements:	
Educ. 113—Psychological and Social Foundations of Education	5
Educ. 153—Audio-Visual Education	2
Educ. 175—Core Course in Secondary Education	5
Educ. 195SS—The Teaching of Social Studies	2
Completion of upper division requirements for a minor	0-6 †
Electives to total	124
Total upper division required	40
Scholarship Requirements:	
In all work taken	1.00
In major and minor	1.00
In each education course taken	1.00
For admission to the Graduate Division:	
In major	1.5
In all upper division work taken	1.5

† Students may substitute for either the history or the economics but not for both six units chosen from either upper division sociology or political science.

† See page 96. Part of the work required for a teaching minor may be completed in the graduate year.

Graduate Year	Units
A year course in either economics or history (graduate course)-----	6
Educ. 265—Guidance in Education-----	2
Educ. 275—Seminar in Secondary Education-----	2
Educ. 340A-340B—Directed Teaching in the Secondary School-----	6
Major or minor or electives (upper division or graduate courses) to total-----	30
Scholarship requirement (all work in graduate year)-----	1.75

**Requirements for the A.B. Degree
with Majors in**

<i>Liberal Arts ‡</i>			
<i>Social Sciences</i>	<i>Eco- nomics</i>	<i>History</i>	<i>Social Service</i>
(Without a teaching credential)			
Note: Starred courses are recommended, not required.			

Lower Division				
Major:	Units	Units	Units	Units
Econ. 1A-1B—Principles of Economics-----	6	6	—	6
Econ. 40—Elementary Statistics-----	—	3	—	3
Hist. 4A-4B—History of Western Civilization-----	6	—	6	—
Hist. 8A-8B—History of the Americas-----	—	—	6	—
Soc. 1A-1B—Introduction to Sociology-----	—	—	—	6
General Education: (To be fulfilled in addition to all requirements for the major)				
Engl. 1A—First-year Reading and Composition-----	3	3	3	3
Engl. 1B—First-year Reading and Composition-----	—	3	—	—
H. H. 1—Personal Health and Safety-----	2	2	2	2
Literature, Philosophy or the Arts-----	6	6	6	6
(Fine and applied arts not to exceed three of the six)				
Natural Sciences-----	9	9	9	9
(Including one biological and one physical science)				
Physical Education Activities-----	2	2	2	2
Psych. 1—General Psychology-----	3	3	3	3
Social Sciences-----	9	9	9	9
Including:				
Econ. 1A-1B—Principles of Economics-----	—	—	(6)*	—
Pol. Sci. 1A-1B—Introduction to Government, or				
Soc. 1A-1B—Introduction to Sociology-----	(6)	—	—	—
Hist. 4A-4B—History of Western Civilization-----	—	(6)	—	—
Electives in Social Sciences-----	—	—	—	(6)
Fulfillment of requirement in United States history and Constitution (See page 50.)				
Spch. 1—Fundamentals of Speech-----	3	3	3	3
Restricted Electives-----	8	5	8‡	8
Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language, including:				
Math. D—Intermediate Algebra-----	—	3 ¹	—	3 ¹
Other Requirements:				
H.E. 20—General Nutrition-----	—	—	—	2
Minor:				
B.A. 14A-14B—Principles of Accounting---	—	6	—	—

‡ The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the foreign language requirement. History majors are advised to complete a total of 16 units of foreign language, part of which may be satisfied by courses taken in high school.

¹ Required as prerequisite to Economics 40, unless the student has had equivalent preparation in mathematics.

Requirements for the A.B. Degree with Majors in	Liberal Arts ‡			
	Social Sciences	Eco- nomics	History	Social Service
	(Without a teaching credential) Note: Starred courses are recom- mended, not required.			
Upper Division				
Major:	Units	Units	Units	Units
Econ. 100—General Economic Theory-----	—	3	—	—
Econ. 103—Business Cycles-----	—	3	—	—
Econ. 135—Principles of Money and Banking-----	—	3	—	—
Econ. 150—Labor Economics-----	—	3	—	3
Econ. 190—Principles of International Trade and Finance-----	—	3	—	—
U.D. Economics—Elective-----	6	9	—	—
Hist.—American Survey-----	—	—	6	—
Hist.—European Survey-----	—	—	6	—
Hist. 197—Aids to Historical Research <i>or</i> Hist. 198—History and Historians-----	—	—	1	—
Hist. 199A or 199B—Special Studies in History-----	—	—	2	—
U.D. History—Elective-----	6	—	—	—
Soc. 102—Methods in Social Work-----	—	—	—	3
Soc. 110A-110B—The Social Services-----	—	—	—	6
U.D. Sociology—Elective-----	—	—	—	12
U.D. Social Science—Elective-----	12	—	9	—
Other Requirements:				
Minor:				
U.D. Business Administration Elective-----	—	6	—	—
Psych. 105—Social Psychology-----	—	—	—	3*
H.H. 160—Public Health-----	—	—	—	3
Electives to total-----	124	124	124	124
Total upper division required-----	40	40	40	40
Scholarship Requirements:				
In all work taken-----	1.00	1.00	1.00	1.00
In major-----	1.00	1.00	1.00	1.00
In minor-----	—	1.00	—	—

‡ The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the foreign language requirement. History majors are advised to complete a total of 16 units of foreign language, part of which may be satisfied by courses taken in high school.

BUSINESS ADMINISTRATION

The program in business administration is flexible enough in the upper division to permit some degree of specialization for those students interested in emphasizing any one of the following fields of concentration:

Accounting: At least nine units chosen from B.A. 160A, 160B, 161, 162, 169.

Labor-management Relations: At least nine units chosen from B.A. 153, Econ. 106, 155, 185, or other courses approved by the major adviser.

Retail Merchandising: B.A. 125, 126, 134.

General Business: Nine units in the field of the student's special interest, approved by major adviser.

All students enrolled in the secretarial and stenographic curricula must take a spelling test. Those who fail to pass this test will be required to enroll in the class in B.A. 4, Word Study.

The four-year program in secretarial science is designed to equip students for positions as executive secretaries or office supervisors. Practical experience will be provided through the cooperation of business and professional employers. During the school year, students will be given opportunity for practical experience in actual employment situations under the supervision of the business administration staff.

BUSINESS EDUCATION

The curriculum in business education leads either to the general or the special secondary credential. Both follow essentially the same undergraduate program, except that directed teaching for the general secondary credential is usually done in the graduate year. Candidates for these credentials must verify at least 1,000 hours (approximately six months) of practical experience that is related to the student's field of specialization. They must complete 15 units in either the bookkeeping-accounting or the secretarial subfield, but it is highly desirable to extend professional preparation to two or more subfields.

NOTE: In the general business subfield, 12 semester hours of work in addition to the requirements for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six of the twelve must be in business or economics.

	Business Education					Business Administration	Secretarial Science
	Required of all	Sub-Fields				(Without a teaching credential)	
		Bookkeeping and Accounting	Secretarial	General Business	Merchandising		
<i>Requirements for the A.B. Degree With Majors in</i>							
Lower Division							
Major:							
B.A. 1A-1B-1C—Shorthand I, II, III	—	—	6	—	—	—	9
B.A. 2A-2B-2C—Typewriting I, II, III	—	2	4	4	2	—	6
B.A. 5A-5B—Business Machines	—	2	2	—	—	—	2
B.A. 14A-14B—Principles of Accounting	6	—	—	—	—	6	—
B.A. 15—Mathematics of Finance	—	2	—	—	—	2	—
B.A. 18—Business Law	3	—	—	—	—	3	—
B.A. 41—Business English	—	—	—	—	—	—	3
† B.A. 2—Penmanship	—	1	1	1	—	—	—
B.A. 50—Salesmanship	—	—	—	3	3	(3) ¹	—
Econ. 1A-1B—Principles of Economics	—	—	—	—	—	6	—
Econ. 40—Elementary Statistics	—	—	—	—	—	3	—
General Education:							
Engl. 1A—First-year Reading and Composition	3	—	—	—	—	3	3
H.H. 1—Personal Health and Safety	2	—	—	—	—	2	2
Literature, Philosophy and the Arts	6	—	—	—	—	6	6
(Fine and applied arts not to exceed three of the six)							
Natural Sciences	9	—	—	—	—	9	9
(Including one biological and one physical science)							
Physical Education Activities	2	—	—	—	—	2	2
Psych. 1—General Psychology	3	—	—	—	—	3	3
Social Sciences	13	—	—	—	—	12	13
Including:							
Econ. 1A-1B—Principles of Economics	(6)	—	—	—	—	—	(6)
Geog. 5—Economic Geography	(3)	—	—	—	—	—	(3)
Year course chosen from: Hist. 40-4B;	—	—	—	—	—	—	—
Pol. Sci. 1A-1B; Soc. 1A-1B	—	—	—	—	—	(6)	—
Fulfillment of requirement in United States history and Constitution. (See page 50.)							
Spch. 1—Fundamentals of Speech	3	—	—	—	—	3	3
Restricted Electives	4	—	—	—	—	5	4
Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language, including:							
B.A. 21—Business Mathematics	—	—	—	3	—	3 ¹	—
Math. D—Intermediate Algebra	—	3 ¹	—	—	—	3 ¹	—
Other Requirements:							
B.A. 18—Business Law	—	—	—	—	—	—	3
Or. 11—Orientation II	1	—	—	—	—	—	—
Completion of lower division requirements for a minor	6-20 *	—	—	—	—	—	—

¹ Prerequisites: (unless the student has had equivalent preparation)

B.A. 21 is prerequisite to B.A. 15.

Math. D is prerequisite to B.A. 15 and Econ. 40.

* See page 96. Part of the requirements for the teaching minor may be completed in the graduate year.

† May be satisfied by examination.

		Business Education					Business Adminis- tration	Secre- tarial Science
		Required of all	Sub-Fields					
			Bookkeeping and Accounting	Secretarial	General Business	Merchandising		
Requirements for the A.B. Degree With Majors in								
Upper Division		Units					Units	Units
Major:								
B.A. 101—Business Correspondence	-----	-	-	3	-	-	-	3
B.A. 105—Dictation and Transcription	-----	-	-	2	-	-	-	2
B.A. 111—Office Management	-----	-	-	-	-	-	-	2
B.A. 112—Secretarial Training	-----	-	-	3	-	-	-	3
B.A. 113—Office Practice	-----	-	-	-	-	-	-	3
B.A. 118—Business Law II	-----	3	-	-	-	-	3	3
B.A. 120—Business Organization	-----	3	-	-	-	-	3	3
B.A. 125—Retail Advertising	-----	-	-	-	-	3	-	3
B.A. 126—Retail Store Management	-----	-	-	-	-	3	-	-
B.A. 130—Business Finance	-----	-	-	-	-	-	3	-
B.A. 132—Consumer Buying or Econ. 105— Consumer Economics	-----	3	-	-	-	-	-	-
B.A. 134—Marketing	-----	3	-	-	-	-	3	3
or Econ. 105—Consumer Economics	-----	-	-	-	-	-	-	(3)
B.A. 152—Principles of Business Education	-----	3 ²	-	-	-	-	-	-
B.A. 160A—Advanced Accounting	-----	-	3	-	-	-	-	-
U.D. Business Administration—Elective	-----	3 ³	-	-	-	-	3	-
U.D. Business Administration or Economics— Elective	-----	-	6	3	9	3	9	-
Other Requirements:								
Econ. 103—Business Cycles	-----	-	-	-	-	-	3	-
Econ. 135—Principles of Money and Banking	-----	-	-	-	-	-	3	-
Econ. 150—Labor Economics	-----	-	-	-	-	-	3	-
U.D. Economics—Elective	-----	-	-	-	-	-	3	-
Educ. 113—Psychological and Social Founda- tions of Education	-----	5	-	-	-	-	-	-
Educ. 153—Audio-Visual Education	-----	2	-	-	-	-	-	-
Educ. 175—Core Course in Secondary Educa- tion	-----	5	-	-	-	-	-	-
Educ. 195B—The Teaching of Business Educa- tion	-----	2	-	-	-	-	-	-
Educ. 340A—Directed Teaching	-----	4 ²	-	-	-	-	-	-
Completion of upper division requirements for a minor	-----	0-6 *	-	-	-	-	-	-
Electives to total	-----	124	-	-	-	-	124	124
Total upper division required	-----	40	-	-	-	-	40	40
Scholarship Requirements:								
In all work taken	-----	1.00	-	-	-	-	1.00	1.00
In major	-----	1.00	-	-	-	-	1.00	1.00
In minor	-----	1.00	-	-	-	-	-	-
In each Education course taken	-----	1.00	-	-	-	-	-	-
For admission to Graduate Division:								
In major	-----	1.5	-	-	-	-	-	-
In all upper division work taken	-----	1.5	-	-	-	-	-	-

² Required for the special secondary credential only.

³ Required for the general secondary credential only.

* See page 96. Part of the requirements for the teaching minor may be completed in the graduate year.

Graduate Year (General Secondary Credential Only)

	<i>Units</i>
B.A. 252—Philosophy of Business Education-----	3
Educ. 265—Guidance in Education-----	2
Educ. 275—Seminar in Secondary Education-----	2
Educ. 340A-340B—Directed Teaching in the Secondary School-----	6
Elective in secondary subject field-----	3
Major or minor or electives (upper division or graduate courses) to total-----	30
Scholarship requirement (all work in graduate year)-----	1.75

TERMINAL COURSES IN SECRETARIAL TRAINING

The college offers one- and two-year programs in stenographic, secretarial training, and general business. Students electing the two-year program must complete a minimum of 60 semester units of college work and must maintain a scholarship average of "C" in order to receive the two-year diploma.

Students taking the one-year course must complete a minimum of 30 semester units and maintain a scholarship average of "C" in order to qualify for the one-year diploma.

Training includes practice in operating the mimeograph, dictaphone, and other office machines in common use.

Attention is called to the fact that the college offers a four-year program in secretarial science which is recommended for those students who wish to obtain a more thorough training for positions as executive secretaries, office supervisors, and other positions calling for greater responsibility or specialized training. (See page 136.)

The placement of graduates is a function assumed by the Division of Social Sciences. Every effort is made to secure positions for current and former graduates. In recent years, the demand has far exceeded the supply.

<i>Suggested program for</i>	<i>Secretarial Training (Two-year)</i>	<i>Stenographic Training (One-year)</i>	<i>General Business</i>
Freshman Year	Units	Units	Units
B.A. 1A—Shorthand I	3	—	—
B.A. 1B—Shorthand II	3	3	—
B.A. 1C—Shorthand III	—	3	—
B.A. 2A—Typewriting I	2	—	2
B.A. 2B—Typewriting II	2	2	2
B.A. 2C—Typewriting III	—	2	—
B.A. 4—Word Study ¹	(2)	(2)	(2)
B.A. 5A-5B—Business Machines	2	2	2
B.A. 10—Secretarial Accounting	—	3	—
B.A. 21—Business Mathematics	3	3	3
B.A. 41—Business English	3	3	3
* B.A. 42—Penmanship	1	—	—
Engl. 1A—First-year Reading and Composition	3	3	3
H.&H. 1—Personal Health and Safety	—	—	2
P.E. Activities (Including P.E. 5 or 15)	1	1	1
Speech 1—Fundamentals of Speech	3	—	3
Electives to total	30	30	30
Sophomore Year			
B.A. 1C—Shorthand III	3	—	—
B.A. 2C—Typewriting III	2	—	2
B.A. 111—Office Management	—	—	2
B.A. 14A—Principles of Accounting	3	—	3
B.A. 14B—Principles of Accounting	—	—	3
B.A. 18—Business Law	3	—	—
B.A. 50—Salesmanship	3	—	3
B.A. 101—Business Correspondence	3	—	—
B.A. 112—Secretarial Training	3	—	—
B.A. 13—Office Practice	—	—	3
Econ. 1A—Principles of Economics	3	—	3
Geog. 5—Economic Geography	—	—	3
P.E. Activities	1	—	1
Psych. 1—General Psychology	3	—	3
Electives to total at least	30	—	30

¹ Required of students who fail to pass the entrance test in spelling.

* Requirement may be fulfilled by examination.

REQUIREMENTS FOR
Junior High School Majors

<i>Economics</i>		
Lower Division	Economics 1A-1B -----	6 units
	History 4A-4B or	
	Political Science 1A-1B -----	6 units
Upper Division	U.D. Economics -----	12 units
Total units required -----		24 units
<i>History</i>		
Lower Division	Economics 1A-1B or	
	Political Science 1A-1B -----	6 units
	History 4A-4B -----	6 units
Upper Division	U.D. History -----	12 units
Total units required -----		24 units
<i>Social Sciences</i>		
Lower Division	Economics 1A-1B or	
	History 4A-4B -----	6 units
	Political Science 1A-1B or	
	Sociology 1A-1B -----	6 units
Upper Division	U.D. Social Science -----	12 units
Total units required -----		24 units

Additional requirements for the junior high school credential are given on pages 51-52.

Minor for Candidates for the General Secondary Credential

Social Studies

A minimum of 20 units in courses approved by divisional chairman. At least six units must be in the upper division.

Minors in the Social Science Fields

	<i>Economics</i>	<i>History</i>	<i>Political Science</i>	<i>Sociology</i>
Lower Division -----	1A-1B	4A-4B	1A-1B	1A-1B
Upper Division -----	6 units	6 units	6 units	6 units
Total units required ----	12 units	12 units	12 units	12 units
	<i>Business Administration</i>	<i>Accounting</i>	<i>Secretarial Training</i>	
Lower Division -----	14A-14B	14A-14B	1A-1B 2A-2B	
Upper Division -----	6 units	160A and 3 units from: 160B, 161, 169	112 and 3 units from 110, 111, 113	
Total units required --	12 units	12 units	16 units	

DESCRIPTION OF COURSES

HISTORY

Lower Division

4A-4B. History of Western Civilization (year) 3-3 units

A rapid survey of the political, economic, social, religious, and cultural development of western civilization from ancient times to the present.

First semester: From ancient times to the seventeenth century.

Second semester: From seventeenth century to the present.

History 4A is not necessarily prerequisite to 4B, although this sequence is recommended.

Required of all History and Social Science majors and minors.

Three one-hour periods per week.

8A-8B. History of the Americas (year) 3-3 units

The development of the Western Hemisphere from discovery to the present. The first semester emphasizes exploration and settlement, colonial growth, imperial rivalries, and includes the achievement of independence. The second semester emphasizes the growth and development of the American nations and people in the last century and a quarter.

Three one-hour periods per week.

70. History of the United States (fall) 2 units

A rapid survey from colonial times to the present. Development of the major political and social institutions of the American people; economic development; sectionalism; expansion. Emphasizes main currents.

This course meets the requirements in United States history established by the Legislature of California.

Two one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in History: History 4A-4B, and History 70 or 8A-8B or consent of the instructor.

100. Contemporary Events 2 units

An evaluation of present day problems and a critical appraisal of recent thinking about American Foreign Policy.

Two one-hour periods per week.

121A-121B. The Middle Ages (year) 3-3 units

121A is a survey of the early Middle Ages. It covers the main events of European history from the fall of the Roman Empire to about 1150 A. D.

121B is a survey of the later Middle Ages. It covers the main events of European history from 1150 to 1450 with emphasis upon social, cultural, religious, and economic foundations of Western Europe.

Three one-hour periods per week.

124. World Organization for Peace 3 units

A general survey of the historical background of the institutions and agencies of international government with major stress on international organization for peace.

Three one-hour periods per week.

142. Europe in the Sixteenth, Seventeenth, and Eighteenth Centuries 3 units

The political, economic, social, and intellectual history of Europe from the Reformation to the fall of Napoleon.

Three one-hour periods per week.

143. Europe in the Nineteenth Century 3 units

European society, politics, and international relations from the Congress of Vienna through the unification of Italy and Germany.

Three one-hour periods per week.

144. Europe Since 1870**3 units**

The history of Europe with special stress on the causes of the world wars and wars themselves.

Three one-hour periods per week.

148. Recent World History**3 units**

Political, economic, and social developments leading to World Wars I and II. Includes present-day international relations.

Three one-hour periods per week.

149. History of Russia**3 units**

Internal history of Russia with emphasis on Soviet Russia; Russia and the Soviet Union, the world politics, and world economics.

151A-151B. Economic, Political and Social History of England**3-3 units**

A study of the principal currents in political and social progress of England in modern times. Special emphasis is placed on economic trends and developments.

Three one-hour periods per week.

153. History of England**2 units**

A study of the English people through a survey of their political, economic, social, and cultural history.

Two one-hour periods per week.

161A-161B. Hispanic America**3-3 units**

The first semester covers the history of Latin America through the Wars of Independence. The second semester brings the history of these countries up to the present time. It includes a study of the relations among the various South American countries, and with the United States, Europe, and Asia. See also Political Science 126.

Three one-hour periods per week.

167. The Foreign Relations of the United States**3 units**

The foreign policy of the United States in the Nineteenth and Twentieth Centuries; the rise of the United States to a position of world power and the problems and changes growing out of this new position.

Three one-hour periods per week.

168. United States as a World Power**3 units**

The emergence of the United States as a major power during the Twentieth Century and the international repercussions of America's developing influence. See also Political Science 128.

Three one-hour periods per week.

171. The United States: Colonial Period**3 units**

Political, social, and constitutional history of the United States through the colonial period to 1789.

Three one-hour periods per week.

172. The United States: The Nineteenth Century**3 units**

Social, cultural, and political history of the United States from Washington's administration to 1898.

Three one-hour periods per week.

174. The United States: The Twentieth Century**3 units**

Presents a general survey of political, social, and cultural aspects of United States history from 1898 to the present.

Three one-hour periods per week.

179. American Constitutional History**3 units**

A study of the Federal Constitution from the historical standpoint, with emphasis upon the constitutional convention and the constitutional controversies of the nineteenth and twentieth centuries.

Three one-hour periods per week.

- 181. History of the Westward Movement** **3 units**
 A study of the advances of the American frontier through its various stages from the Atlantic to the Pacific.
 Three one-hour periods per week.
- 188. History of California** **2 or 3 units**
 The economic, social, intellectual, and political development of California from the earliest time to the present. Two units for the regular class with the possibility of an extra unit by conference.
 Two one-hour periods per week.
- 194. History of Education in the United States** **2 units**
 The origin and rise of significant educational movements in the United States, with emphasis upon the integration of the American school system with our social institutions, the emergence and conflict of social classes, the changing balance between rural and urban life, immigration, movements of social reform, and governmental policy on social questions, and social impact of industrialization, urbanization, and war.
 Two one-hour periods per week.
- 197. Aids to Historical Research** **1 unit**
 An introduction to historical method, including a study of the auxiliary sciences.
- 198. History and Historians** **1 unit**
 A study of historiography, including intellectual processes by which history is written, the results of these processes, and the sources and development of history. Attention is also given to representative historians.
- 199A-199B. Special Studies in History (year)** **2-2 units**
 Individual investigation of selected topics. 199A is required of all history majors. To be taken in the senior year in a field for which specific preparation has been made in the junior year.

Graduate Division

Prerequisites: Graduate standing, and the completion of History 197 or 198 and 199A or 199B.

- 254A-254B. Seminar in Modern European History** **3-3 units**
 Studies in specialized periods of European history with emphasis centering around the early and late Middle Ages.
- 281A-281B. Seminar in American History** **3-3 units**
 Studies in specialized periods of American history with emphasis centering around those subjects and periods for which the most research material is available; the colonial history of the United States; the Civil War period, and the Northwest.
- 288A-288B. Seminar in California History** **3-3 units**
 Studies in California history, with emphasis upon the development of local institutions and industries.
- 290. Master's Degree Thesis** **3 units**
 See page 36.

ECONOMICS**Lower Division****1A-1B. Principles of Economics (year) 3-3 units**

First semester: Economic organization; the economic laws governing value, price, and the distribution of income; industry relations; the social security system.

Second semester: Money and banking; international trade, finance, and commercial policy; government finance; economic reform.

Three one-hour periods per week.

40. Elementary Statistics (spring) 3 units

Theory and uses of statistical methods. Practice in tabular and graphical representation of data. Measures of central tendency, relationships, and dispersion. Coefficients, index numbers, time series, and other forms of statistical calculations.

Students taking this course should consult the instructor concerning the adequacy of their mathematical background.

Three one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in Economics: Economics 1A-1B or consent of the instructor.

100. General Economic Theory 3 units

Modern theories of price determination and evolution of ideas concerning wages, rent, and interest. Study of the principles of value and distribution under competition, monopoly, and monopolistic competition.

Three one-hour periods per week.

103. Business Cycles 3 units

A historical and descriptive study of the business cycle. Statistical analysis of business cycles and business forecasting. A comparison of various theories of the business cycle.

Three one-hour periods per week.

104. National Income and Employment 3 units

The factors that determine output, national income and employment. Survey of recent monetary-fiscal theories relative to the level of employment. The Keynesian influence on contemporary economic theory.

Three one-hour periods per week.

105. Consumer Economics 3 units

A general survey of the economics of consumption in the United States with an analysis of the determination of consumer demands and of the sources of supply.

106. Social-Economic Reform Movements (spring) 3 units

A historical and comparative survey of Socialism, Communism, Cooperation, and Utopianism, and other systems of reform and reconstruction.

See also Sociology 101.

Three one-hour periods per week.

113. Economic and Social History of the United States (spring) 3 units

The development of American economic institutions and the interaction between economic factors and the social and political conditions in the United States.

Three one-hour periods per week.

130. Business Finance 3 units

The instruments and methods of financing the industrial enterprise. Financial practices of firms and their effects upon the economy.

Three one-hour periods per week.

131. Public Finance and Taxation 3 units

Public expenditure, revenue, and borrowing. Fiscal policy and the business cycle. The problem of shifting, incidence, and economic effects of taxes.

Three one-hour periods per week.

- 135. Principles of Money and Banking (fall) 3 units**
 The nature and function of money and credit; the structure and functions of the most important financial institution in American economic society.
 Three one-hour periods per week.
- 143. Economics of Insurance 3 units**
 An introduction to the underlying principles of insurance, followed by a descriptive study of the practices in the more important branches in the insurance business.
 Three one-hour periods per week.
- 150. Labor Economics (fall) 3 units**
 A survey of modern labor conditions, followed by a study of the more specific labor problems related to wages, hours of work, conditions of work, unionism, economic security, and industrial relations.
 Three one-hour periods per week.
- 151. Contemporary Labor-Management Relations 3 units**
 Postwar wage and nonwage practices. Underlying forces in a maturing labor-management relation. The role of the fact-finding board.
 Prerequisite: Econ. 150.
 Three one-hour periods per week.
- 155. Labor and Social Legislation 3 units**
 Industrial codes concerning safety and sanitation, and governing the employment of women and children in industry. Workmen's compensation; the Fair Labor Standards Act; laws and court decisions affecting wages, hours, picketing, union agreements, strikes, etc.
 Three one-hour periods per week.
- 158. Government and Business 3 units**
 Includes a study of governmental planning, governmental activity in the preservation and regulation of competition. Special emphasis is placed upon industrial codes and safety and sanitation legislation. Workmen's compensation, Fair Labor Standards Act, laws and court decisions, wages, hours, picketing, strikes, etc.
 Three one-hour periods per week.
- 185. Social Insurance (spring) 3 units**
 The causes of insecurity in the industrial system and of society's attempts to cope with the problem. Regularization of employment and other phases of economic planning; unemployment and old age insurance; security against industrial accidents and occupational diseases; health insurance; and public relief. See also Sociology 110A.
 Three one-hour periods per week.
- 188. World Population and Resources (spring) 3 units**
 Distribution of the world's population and resources and their relationship in terms of economic welfare; areas of population pressure; measures for economic cooperation in the interests of world peace.
 Three one-hour periods per week.
- 190. Principles of International Trade and Finance (spring) 3 units**
 The theory of international trade; balance of trade and payments; foreign exchanges and foreign trade financing; government control and direction of international trade.
 Three one-hour periods per week.
- 191. International Economic Policy 3 units**
 Tariff and other mechanisms for the control of international trade; the reciprocal trade agreement program; and problems which are of special importance for world economic reconstruction, i.e., multilateral trade conventions, monetary stabilization, international investment, transport and communication agreements, international cartels and commodity agreements.
 Three one-hour periods per week.

Graduate Division

Prerequisites: Graduate standing and adequate preparation in Economics.

201A-201B. Development of Economic Thought 3-3 units

The development of economic thought from classical times to the present. Emphasis is given to the study of the physiocrats, Adam Smith, Malthusian school, classicism and utilitarianism, "National School of Political Economy," the historical approach to economics, the rise of socialism and economic radicalism, and recent economic doctrines.

290. Master's Degree Thesis 3 units

See page 36.

299A-299B. Special Problems in Economics 3-3 units

Assignment of special economic problems for intensive study.

BUSINESS ADMINISTRATION**Lower Division****1A. Shorthand I (fall, spring) 3 units**

Introduction to Gregg shorthand simplified through the functional method approach.

Five one-hour periods per week.

1B. Shorthand II (fall, spring) 3 units

Further development of speed in writing. A minimum speed of 80 words per minute is the objective of the course.

Five one-hour periods per week.

Prerequisite: B.A. 1A or equivalent.

1C. Shorthand III (fall, spring) 3 units

Dictation and transcription. Speed writing beyond the 100 word per minute level.

Prerequisite: B.A. 1B or equivalent.

Five one-hour periods per week.

2A. Typewriting I (fall, spring) 1-2 units

A skill subject designed to teach the fundamentals of touch typing in the shortest possible time. The last half of course may be taken for one unit as a refresher course.

Six one-hour periods per week.

2B. Typewriting II (fall, spring) 2 units

Advanced technique and practice. Stress will be placed upon the prevention of bad habits in typewriting, remedial typewriting, letter writing, carbon copies, addressing envelopes, continuity and rhythm.

Prerequisite: Business Administration 2A or its equivalent.

Six one-hour periods per week.

2C. Typewriting III (fall, spring) 2 units

Expert typing drills, tabulating, billing, problems involving the working out of real office jobs under office conditions.

Prerequisite: Business Administration 2B or its equivalent.

Six one-hour periods per week.

4. Word Study (fall) 2 units

A study of words used in business and industry with special drill on those commonly misspelled.

Two one-hour periods per week.

5A-5B. Business Machines (fall) 1-1 units

An intensive study of modern office machinery, including adding and calculating machines. The purpose of this course is to train commercial teachers and to meet the demand of present-day business life for skilled operators.

Three one-hour periods per week.

10. Secretarial Accounting (spring)**3 units**

Designed primarily for secretaries and those preparing for general clerical work. Complete bookkeeping cycle is covered rapidly but emphasis is placed on bookkeeping for small business concerns, and clerical procedures such as pay roll preparation, customer postings, and bank reconciliations.

Two one-hour lecture periods and one three-hour laboratory period.

13. Office Practice**3 units**

See B.A. 113.

14A-14B. Principles of Accounting (year)**3-3 units**

First semester: The mechanics of bookkeeping, balance sheet approach, including the general journal, specialized journals, posting, trial balances, columnar working sheets, closing entries, balance sheets, and profit and loss statements.

Prerequisite: Sophomore standing.

Second semester: Characteristics of the partnership and corporate form of business organization, cost accounting, department and branch accounting, analysis and interpretation of financial statements.

Prerequisites: B.A. 14A.

Two one-hour lecture periods and one three-hour laboratory period per week.

15. Mathematics of Finance (spring)**2 units**

Presentation of mathematical formulas used in problems of compound interest and discounts. Application of such formulas to business problems, including valuation of certain assets and liabilities, depreciation, life insurance, etc.

Prerequisite: Math. D and B.A. 21 or equivalent preparation.

Two one-hour periods per week.

18. Business Law (fall)**3 units**

Historical development of law and its functions with respect to business. Emphasis on the law of contracts, the law of agency, and the law of negotiable instruments.

Three one-hour periods per week.

21. Business Mathematics (fall)**3 units**

Designed to give students a workable conception of the fundamental principles of the mathematics of business. Includes fractions, percentages, simple and successive discounts, markups, etc.

(This requirement may be met by passing the departmental examination.)

Two one-hour lectures and one three-hour laboratory period per week.

41. Business English (spring)**3 units**

Fundamentals of grammar and sentence structure; punctuation; personal letters; the letter in business.

Prerequisite: Satisfactory score on Subject A test.

Three one-hour periods per week.

42. Penmanship**1 unit**

(May be fulfilled by examination.)

50. Salesmanship (fall)**3 units**

The personality and training of the salesman; sales analysis; selling techniques and procedures.

Three one-hour periods per week.

Upper Division**101. Business Correspondence (fall)****3 units**

The letter in business; telegrams, memorandums, reports, advertising; the art of proofreading.

Prerequisite: English 1A.

Three one-hour periods per week.

- 105. Dictation and Transcription (fall) 2 units**
Production of the mailable letter in business. Extensive dictation and essential points of English and style.
Prerequisite: Business Administration 1C or its equivalent.
Two two-hour periods per week.
- 111. Office Management (fall) 2 units**
Lectures and discussions concerning the problem of office management, i.e., flow of work, physical facilities, working conditions, nature and sources of supplies and equipment.
Two one-hour periods per week.
- 112. Secretarial Training (spring) 3 units**
Practical secretarial problems involving personality studies and business etiquette; filing; duplicating machines; voice transcription; dictation and transcription of shorthand notes.
Prerequisite: B. A. 1B, 2B, and B.A. 41, or equivalent
Five one-hour periods per week.
- 113. Office Practice (spring) 3 units**
Supervised on-the-job training in business offices in the area.
One conference period and eight hours in a business office per week.
- 118. Business Law II (spring) 3 units**
A second course in business law with emphasis on business organization, including partnerships, corporations, and agency; personal and real property, including sales, bailments, mortgages, landlord and tenant, lien laws; security relations, including conditional sales, suretyships, insurance; trade regulations.
Prerequisite: B.A. 18.
Three one-hour periods per week.
- 120. Business Organization (fall) 3 units**
Introduction to business management; the economic framework of modern business; management of physical and human resources; management of production and sales; administrative controls.
Three one-hour periods per week.
- 125. Retail Advertising (fall) 3 units**
The planning and execution of advertising for the retail business: research, budgets, media, copy, layout, and management of the advertising department.
Prerequisite: B.A. 134.
Three one-hour periods per week.
- 126. Retail Store Management 3 units**
A study of retailing methods from the standpoint of the owner and manager. Includes the case study of such subjects as purchasing, planning, stocks, inventory methods, markup, accounting for stock control, pricing, style merchandising, and general management problems.
Three one-hour periods per week.
- 130. Business Finance (spring) See Econ. 130. 3 units**
- 133. Personal Finances and Investments (spring) 3 units**
A study of financial institutions and methods of achieving financial security, including borrowing and lending, controlling budgets, investing in securities, buying insurance and annuities, arranging for trust funds, financing home ownership, figuring income tax.
Three one-hour periods per week.
- 134. Marketing (spring) 3 units**
The organization and management of markets. A survey of the activities involved in transferring manufactured goods and agricultural products from producer to consumer.
Three one-hour periods per week.

- 152. Principles of Business Education** **3 units**
 The principles of business education as they relate to business activities.
 Three one-hour periods per week.
- 153. Personnel Administration** **3 units**
 Personnel policies and procedures. Wage policy and administration. Collective bargaining procedures. Social aspects of industry and its effect upon personnel policy. The government's role in personnel administration.
 Three one-hour periods per week.
- 160A-160B. Advanced Accounting (year)** **3-3 units**
 Intensive study of the advanced theory of accounts and its application. Textbook, selected problems, and lectures on the various phases of accounting theory and practice.
 Two one-hour lectures and one two-hour laboratory section per week.
 Prerequisite: B.A. 14A-14B; 160A prerequisite to 160B.
- 161. Cost Accounting (fall)** **3 units**
 Intensive study of methods used in accounting for production costs. Includes job order system, process system, and standard costs. Two one-hour lectures and one two-hour laboratory section per week.
 Prerequisite: B.A. 14A-14B. B.A. 160A recommended.
- 162. Auditing (spring)** **3 units**
 Presentation of modern auditing principles and procedures followed in an examination of financial statements. Textbook, selected cases and problems and lectures.
 Two one-hour lectures and one two-hour laboratory section per week.
 Prerequisite: B.A. 14A-14B, 160A. 160B is recommended.
- 169. Federal Income Tax Procedure (fall)** **3 units**
 A study of the federal laws relating to personal, estate, and corporation income taxes, from the accounting point of view. Lectures and case problems.
 Prerequisite: B.A. 14A-14B.
 Three one-hour periods per week.
- 199. Special Problems** **2 units**
 Research work open to advanced students with the consent of the instructor.

Graduate Division

- 252. Philosophy of Business Education** **3 units**
 The development of a basic philosophy of Business Education.
- 299. Special Problems in Business Administration** **1-3 units**

GEOGRAPHY

Lower Division

- 5. Economic Geography (spring)** **3 units**
 A geographic interpretation of man's economic activities. Includes a study of the natural environment and a regional survey of the world's agricultural, industrial, and mineral distribution.
 Three one-hour periods per week.

Upper Division

- 123. International Geopolitics** **2 units**
 See Political Science 123.
 Two one-hour periods per week.
- 181. Current Problems in Political Geography** **2 units**
 See Political Science 127.
 Two one-hour periods per week.

PHILOSOPHY**Lower Division****6A-6B. Introduction to Philosophy (year) 3-3 units**

First semester: An elementary survey of the fundamental concepts and issues in ethics, logic, metaphysics, religion, ontology, and the theory of knowledge.

Second semester: A special consideration of the basic problems of philosophy, including historical references to solutions presented in the past.

Three one-hour periods per week.

Upper Division**106. Reform Movements 3 units**

See Economics 106.

113. Contemporary Thought 2 units

A survey and critical analysis of the more prominent philosophies of the present day, with particular emphasis upon political thought. Students who have credit for Political Science 113 may not receive additional credit for this course.

POLITICAL SCIENCE**Lower Division****1A-1B. Introduction to Government (year) 3-3 units**

A study of the development, ideology, techniques, organizations and functions of various governments. Comparison and contrast with the government of the United States is stressed.

Three one-hour periods per week.

51. American Constitutional Government (spring) 2 units

A study of the structure, operation, and development of the American constitutional system.

This course meets the requirements in United States Constitution established by the Legislature of California.

Two one-hour periods per week.

Upper Division**113. Contemporary Political Thought 2 units**

A survey and critical analysis of the major political ideas of the present day, with particular emphasis on American views.

Two one-hour periods per week.

115. American Political Ideas 2 units

A critical analysis of the major political ideas in American history. Among the problems discussed in a search for a sound philosophy for democracy will be the ideas of majority rule, public opinion, propaganda, society's needs, minority rights, and force and persuasion.

Two one-hour periods per week.

123. International Politics 2 units

Problems of nationalism, imperialism, and world federation, particularly in connection with current problems of maintaining peace; the course includes a study of geopolitical problems.

Two one-hour periods per week.

124. International Organizations 3 units

See History 124.

126. Latin-American International Relations 3 units

See History 161B.

- 127. International Relations** 3 units
 A study of the instruments, techniques, institutions, and problems of international government with stress upon current issues of international diplomacy, including the United Nations.
 Three one-hour periods per week.
- 128. Recent Foreign Policy of the United States** 3 units
 See History 168.
- 138. International Relations in the Far East** 2 units
 Historical development and present difficulties in the relations between the various world powers in the Pacific area; the changing importance of the Far East and its resultant problems.
- 152. American Political Parties and Practical Politics** 2 units
 The role of political parties in American government; an analysis of the history, organization, and activities of parties; pressure groups; practical politics studied from the point of view of the nominating system; the conduct of elections; campaign techniques, voting; and the spoils system.
 Two one-hour periods per week.
- 153. The Government of Great Britain** 2 units
 A study of the legal, administrative, and parliamentary development of England from Anglo-Saxon times to the present.
 Two one-hour periods per week.
- 158. Government and Business** 3 units
 See Economics 158.
- 198. Directed Reading in Political Science** 2 units
 This course will include selected readings in political theory, international relations, administrative management, politics, and legislation, and Latin American political institutions.

SOCIOLOGY

Lower Division

- 1A-1B. Introduction to Sociology (year)** 3-3 units
 1A—An introduction to the study of the social life of man and its relations to the factors of culture, natural environment, heredity, and the group.
 1B—The study of social disorganization and resulting social problems.
 Three one-hour periods per week.
- 8. Game Law Enforcement (spring)** 2 units
 To acquaint the student with the basic concepts of law enforcement, with special emphasis on fish and game law enforcement work.
 This course is *not* applicable toward the major or the minor in Sociology nor toward the basic requirement in Social Sciences.
 One two-hour lecture and laboratory period per week.
- 60. The Family** 3 units
 See Sociology 160.

Upper Division

- Prerequisite to upper division courses in sociology: Sociology 1A-1B or consent of instructor.
- 101. Social-Economic Reform Movements (fall)** 3 units
 See Economics 106.

102. Methods in Social Work (spring)**3 units**

An introduction to the methods of case work, group work and community organization, with special emphasis on case-work techniques and skills. Includes approximately 50 hours of field work, under supervision, in community agencies.

Prerequisites: Sociology 110A-110B (110B may be taken concurrently) and the consent of the instructor.

Three one-hour periods per week.

103A-103B. Crime and Delinquency (year)**2-2 units**

103A—Crime: the nature and extent; theories of causal factors; local, state, and federal programs for dealing with the adult criminal. The place and use of probation and parole.

103B—Delinquency: the nature and extent of juvenile delinquency; theories of causal factors; programs for dealing with the delinquent and for the prevention of juvenile delinquency.

Two one-hour periods per week.

104. Social Insurance (spring)**3 units**

See Economics 185.

105. Psychiatric Information for Social Workers (fall)**2 units**

An introduction to the schools of psychiatric thought. Development of the mental hygiene movement. Community services for the prevention and treatment of mental illness.

Two one-hour periods per week.

106. Community Organization (spring)**2 units**

The concept of the community, the sociological background of community organization. Methods in studying the community.

Two one-hour periods per week.

108. Problems and Practices of Law Enforcement (spring)**2 units**

The laws and practices governing seizure, identification, and presentation of evidence. Includes a study of both federal and state game laws. Provides opportunity for practical experience and field work.

This course is *not* applicable toward the major or the minor in Sociology nor toward the basic requirement in Social Science.

One two-hour period per week.

109. Race Relations (spring)**3 units**

History and status of the principal racial and ethnic minority groups in the United States; relations between minority and majority groups; the nature of prejudice and programs for the control and mitigation of discrimination and prejudice.

Three one-hour periods per week.

110A-110B. The Social Services (year)**3-3 units**

110A—Historical development of the social services, including relationships between private and public services.

110B—Modern social services—their organization and programs—with special emphasis on the public social services.

Three one-hour periods per week.

111. Public Welfare**3 units**

Organization of federal, state, and local services to meet welfare needs in the United States. Problems of administration of these services.

Three one-hour periods per week.

143. Urban Sociology (fall)**3 units**

The modern city contrasted with earlier cities; the structure and characteristics of the modern urban center and the effects of these on the social institutions; problems of rapid urbanization.

Three one-hour periods per week.

144. Rural Social Problems**3 units**

Sociological study of the rural community and an analysis of the social problems of the present-day rural community.

Three one-hour periods per week.

152. Child Welfare (fall)**3 units**

Needs of dependent and neglected children and existing programs for the care and protection of these children. Application of case work methods to child welfare.

Three one-hour periods per week.

160. The Family (spring)**3 units**

Emphasis is on specific aspects of modern family living including preparation for marriage, interpersonal relationships, and particular fields of knowledge important to family life. Background is provided by initial study of the cultural forms of family life and the historical development of the American family.

Three one-hour periods per week.

GROUP MAJOR

The Group Major has been developed to serve the needs of those students who wish to secure an A.B. Degree which is broadly cultural in character. It provides a "General Education" background for those who wish to pursue a type of professional training which demands a broad rather than a specialized undergraduate program. Many combinations are possible, as the listings below indicate.

The program for a Group Major must include the following :

Lower Division		<i>Units</i>
Engl. 1A—First-year Reading and Composition		3
H.H. 1—Personal Health and Hygiene		2
Literature, Philosophy and the Arts		6
(Fine and applied arts not to exceed three of the six)		
Natural Sciences		9
(Including one biological and one physical science)		
Physical Education Activities		2
Psych. 1—General Psychology		3
Social Sciences		9
(Including fulfillment of the requirement in United States history and constitution. See page 50.)		
Spch. 1—Fundamentals of Speech		3
Restricted Electives		8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language)		
Completion of all prerequisites for the major.		

Upper Division		
Major (See below)		36
U. D. Electives		4
Electives to total		124
Scholarship Requirements:		
In all work taken		1.00
In each division of the major		1.00

The major consists of 36 units in the upper division, distributed among three subject-fields, chosen from the lists of majors and minors on pages 38 and 39 or from subdivisions of those fields, as listed under the various divisions of the curricula. The student following this major may, in consultation with his adviser, arrange the distribution of the 36 units in whatever proportion seems best, subject, however, to the following requirements:

(a) Not less than six upper division units must be taken in each field, together with the lower division prerequisites; the total of upper division units in any one field should not exceed 18.

(b) Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (i.e., 24 units, at least 12 of which are in the upper division).

(c) Sufficient work must be taken in another field to meet the minimum requirements of the State for a minor (i.e., 12 units, at least six of which are in the upper division).

SUGGESTED GROUP MAJORS

Allied Arts
 (See page 62)
 English
 Foreign Language
 Speech

English
 Journalism
 Social Sciences

Education
 Social Service
 Home Economics

Drama
 Education
 English

English
 History
 Economics

Natural Sciences
 Physical Education
 Social Service

Radio
 Business Administration
 Journalism

Recreation
 Conservation and
 Wildlife Management
 Arts and Crafts *or*
 Education

Music
 Speech
 English

Natural Sciences
 Business Administration
 Mathematics

Social Sciences
 Foreign Languages
 Speech-Radio

Radio
 Education
 Social Service

HUMBOLDT STATE COLLEGE DIRECTORY OF PERSONNEL

Administered Through the
STATE DEPARTMENT OF EDUCATION

EXECUTIVE OFFICERS

ROY E. SIMPSON.....Superintendent of Public Instruction and Director of Education
AUBREY A. DOUGLASS.....Associate Superintendent of Public Instruction
and Chief, Division of State Colleges and Teacher Education

STATE BOARD OF EDUCATION

WILLIAM L. BLAIR, *President*.....Pasadena
RAYMOND J. ARATA.....San Francisco
BYRON H. ATKINSON.....Glendale
MRS. E. T. HALE.....San Diego
GILBERT H. JERTBERG.....Fresno
JOSEPH P. LOEB.....Los Angeles
MAX OSSLO.....San Diego
MRS. W. J. PARKS.....Richmond
WILBER D. SIMONS.....Redding
MRS. E. K. STRONG.....Stanford University

HUMBOLDT STATE COLLEGE ADVISORY BOARD

DON O'KANE, *Chairman*.....Eureka
G. EDWARD GOODWIN, *Vice Chairman*.....Eureka
CORNELIUS H. SIEMENS, *Executive Secretary*.....Arcata
CHARLES R. BARNUM.....Eureka
CHESTER W. CONNICK.....Eureka
DR. VERNON L. HUNT.....Arcata
J. J. KROHN.....Arcata
GORDON MANARY.....Scotia
ROBERT W. MATTHEWS.....Arcata
HAROLD O. ROBERTSON.....Garberville
HENRY WESTBROOK.....Smith River

COLLEGE ADMINISTRATIVE OFFICERS AND ASSISTANTS

President	Cornelius H. Siemens
Executive Dean	Lawrence E. Turner
Dean of Instruction	Homer P. Balabanis
Dean of Students	Leonard Christensen
Associate Dean of Students (Activities)	Kate Buchanan
Associate Dean of Students, (Guidance)	Burton Henry
Business Manager	Jessie T. Woodcock
Dean of Summer Session	Ivan C. Milhous
Coordinator of Teacher Education	Ivan C. Milhous
Coordinator of Elementary Education and Principal of the College Elementary School	Harry E. Griffith
Coordinator of Secondary Education	Albert D. Graves
Registrar	Myrtle M. McKittrick
Librarian	Helen A. Everett
Senior Librarian	Dean Galloway
Senior Librarian	Miriam Maloy
Junior Librarian	
College Elementary School Librarian	
College Physician	George C. Scheppler, M.D.
College Nurse	Beverly Griffith
College Dentists	Noah A. Stromberg, Leland Domeyer
Recorder	Evelyn M. Plunkett
Accounting Officer	Eugene A. Flocchini
Housing Manager	
Secretary to the President	Louise Hickman
Secretary to the Executive Dean	
Secretary to the Dean of Instruction	
Secretary, Summer Sessions and Placement	Mary Louise Humphrey
Secretary to the Principal of the College Elementary School	Helen Walker
Secretary to the Divisional Chairmen	Margery Anderson
Secretaries to the Personnel Deans	Delta Hogue,
Comptroller of Student Body Accounts	Margaret Brookins
Property Clerk	Thomas Wright
Switchboard Operator	Doris Peters
Clerical Assistants	Marietta Anderson, Bonnie Desrosiers, Nona Hogg, Charlotte Johnson, Josephine Malone, Mary Ann Smith, Geneva Sullivan

DIVISIONAL CHAIRMEN

Division of Education and Psychology	Ivan C. Milhous
Division of Fine and Applied Arts	Don W. Karshner
Division of Health and Physical Education	Joseph Forbes
Division of Language and Literature	Maurice Hicklin
Division of Natural Sciences	Harry D. MacGinitie
Division of Social Sciences	Hyman Palais

FACULTY COMMITTEES—1951-1952

Committee on Committees

*Dr. Turner
Dr. Balabanis
Mrs. McKittrick

President's Council

*Dr. Siemens
Dr. Turner
Dr. Balabanis
Dr. Christensen
Mrs. Woodcock

Academic Council

*Dr. Balabanis
Mrs. McKittrick
Divisional Chairmen

Academic Regulations

*Miss Platt
Miss Johnson
Mr. Arnold
Dr. Henry
Mrs. McKittrick

Admissions

*Mrs. McKittrick
Dr. Balabanis
Dr. Milhous
Dr. Christensen

Assembly

*Mr. Van Duzer
Dr. Henry
Mr. Mearns
President of Student Body

Athletic Board of Control

*Dr. Forbes
Dr. Christensen
Mr. Sarboe
Mr. Telonicher

* Chairman.

Relations With Schools Committee

*Dr. Christensen
Mrs. McKittrick
Dr. Karshner
Dr. Spaid
Dr. Glover

Graduate Study Committee

*Dr. Milhous
Dr. Balabanis
Dr. Graves
Dr. Griffith
Dr. Palais

Humboldt Foundation

Dr. Balabanis
Dr. Milhous
Miss Buchanan
Dr. Christensen
Mrs. Woodcock

Library

*Mrs. Everett
Dr. Balabanis
Divisional Chairmen

Recreation and Social Life

*Mrs. Kellenberger
Miss Buchanan
Dr. Lanphere
Mrs. Thompson

Scholarships and Awards

*Mrs. McKittrick
Dr. Balabanis
Dr. Milhous
Mr. Fulkerson
Mr. Sarboe
Miss Johnson

The President is *ex officio* a member of all committees.

FACULTY

- ALWARD, HERBERT V., JR., M.A.-----Assistant Professor of English and Journalism
A.B. English, San Francisco State College; M.A., School of Journalism,
University of Oregon; additional graduate study, Stanford University.
- ARNOLD, HOMER L., M.A.-----Professor of Mathematics and Philosophy
B.S., Indiana State Teachers College (Eastern Division); A.B., University
of Indiana; M.A., University of Chicago; additional graduate study, University
of Chicago, Stanford University, University of Michigan.
- BALABANAS, HOMER P., Ph.D.-----Professor of Economics and Dean of Instruction
Ph.B., M.A., University of Chicago; Ph.D., Stanford University
- * BARLOW, LELAND, M.A.-----Associate Professor of Music
Mus.B., Oberlin Conservatory; M.A., State University of Iowa; additional
graduate study, University of Southern California.
- BEAVER, WALTER B., M.A.-----Instructor in Speech
A.B., Santa Barbara College; M.A., University of California at Los Angeles.
- BERRY, JOHN W., M.F.A.-----Instructor in Art
B.A., M.F.A., California College of Arts and Crafts.
- BUCHANAN, KATE, M.A.-----Assistant Professor of English
and Associate Dean of Students
A.B., University of Oregon; M.A., Washington State College; additional
graduate study, Columbia University.
- BULLEN, NEWELL REESE, M.A.-----Associate Professor of Art
B.S., Utah State Agricultural College; M.A., Stanford University; additional
graduate study, Academy of Advertising Art, and California College of Arts and
Crafts.
- CHRISTENSEN, LEONARD, Ed.D.-----Assistant Professor of Education
and Dean of Students
A.B., San Francisco State College; M.A., University of California; Ed.D.,
Stanford University.
- CORNELIUS, SARAH R., M.A.-----Assistant Professor of Education
Ed.B., University of California at Los Angeles; M.A., Columbia University.
- DE WITT, JOHN W., M.S.-----Assistant Professor of Biological Sciences
B.S., Oregon State College; M.S., Oregon State College; additional graduate
study, University of California at Los Angeles.
- EVERETT, HELEN A., M.A.-----Librarian
A.B., University of Oregon; Certificate of Librarianship and M.A., Univer-
sity of California.
- FORBES, JOSEPH, Ed.D.-----Associate Professor of Physical Education
A.B., Occidental College; M.S., University of Oregon; graduate work,
Occidental College, University of Southern California; Ed.D., University of Oregon.
- FULKERSON, CHARLES, A.B.-----Associate Professor of Music
A.B., San Jose State College; graduate study, University of Southern
California; piano study under Benning Dexter, John Crown, Alice Ehlers, Abby
Whiteside; additional graduate study, Columbia University.
- GALLOWAY, RICHARD DEAN, A.B.-----Senior Librarian
A.B., Humboldt State College; graduate study, University of Southern
California.
- GLOVER, FRED A., Ph.D.-----Associate Professor of Biological Sciences
B.S., Oregon State College; M.S., Pennsylvania State College; Ph.D., Iowa
State College.
- GRAVES, ALBERT D., Ed.D.-----Professor of Education
A.B., M.A., and Ed.D., Stanford University.
- GRAVES, THELMA-WALTERS, A.B.-----Instructor in Home Economics
A.B., University of California, Santa Barbara; graduate study, Humboldt
State College.

* Leave of absence 1951-52.

- GRIFFITH, HARRY E., Ed.D.-----Professor of Education
 Ed.B., University of California at Los Angeles; M.A., University of California at Berkeley; additional graduate study, Claremont Colleges, University of Southern California, Stanford University.
- GURNEE, DUANE, A.B.-----Instructor in Music
 A.B., and additional graduate study, Humboldt State College.
 Private study of clarinet and saxophone under Antonio Raimondi, Achille Heynen, Pierre De Leye (Brussels, Belgium, Conservatory of Music), Dr. A. Szendrei, Mickey Gillette, Ronald Phillips, Franklin Stokes, and Glenn Johnston.
- HENRY, BURTON, Ph.D.-----Assistant Professor of Education
 and Associate Dean of Students
 A.B., Harvard University; graduate work at Yale University; M.Ed. and Ph.D., University of Southern California.
- HICKLIN, MAURICE, M.A.-----Professor of English
 A.B., University of Missouri; B.J., School of Journalism, University of Missouri; M.A., Stanford University.
- HICKMAN, WILLIAM H., M.A.-----Assistant Professor of Economics
 B.S., Kansas State College; M.A., Stanford University; additional graduate study, Stanford University.
- HIMSTREET, WILLIAM C., M.A.-----Instructor in Business Administration
 A.B., San Jose State College; M.A., Stanford University.
- * INGBRITSON, KASPER I., Ed.D.-----Assistant Professor of Education
 B.Ed., State Teachers College, Bemidji, Minnesota; graduate study, University of Minnesota; M.A., Claremont Graduate School; additional graduate study, Stanford University.
- JACKSON, WILLIAM F., M.B.A.-----Assistant Professor of Business Administration
 B.S., M.B.A., University of California.
- JOHNSON, ADELLA, M.A.-----Associate Professor of Modern Languages
 A.B., University of Minnesota; M.A., University of Washington; additional graduate study, University of Washington, Stanford University, Columbia University, University of Minnesota, University of California, Casa Panamericana, Mills College, University of Paris, France.
- JOHNSON, BIRGER, M.S.-----Assistant Professor of Physical Education
 A.B., North Dakota State College; M.S., University of Oregon; additional graduate study, University of Southern California.
- JOHNSON, HERMIE K., M.S.-----Instructor in Physical Education
 A.S. and M.S., University of Oregon.
- KARSHNER, DON W., Ed.D.-----Associate Professor of Speech
 A.B., Washington State College; Ed.D., Stanford University.
- LANPHERE, WILLIAM M., Ph.D.-----Professor of Biological Sciences
 B.S., M.S., and Ph.D., University of Washington.
- MacGINITIE, HARRY D., Ph.D.-----Professor of Physical Sciences
 A.B., Fresno State College; Ph.D., University of California.
- MCKITTRICK, MYRTLE M., A.B.-----Registrar
 A.B., Willamette University; post-graduate study, University of Washington.
- MEARNS, JAMES T., M. Mus.-----Assistant Professor of Music
 B.Mus., Oberlin Conservatory of Music; M. Mus., University of Michigan; post-graduate study in musicology, University of Michigan; Master classes in organ with Joseph Bonnet.
- MERKLIN, GAYLE C., M.S.-----Assistant Professor of Home Economics
 B.S., M.S., Oregon State College.
- MILHOUS, IVAN C., Ph.D.-----Professor of Education
 A.B., Penn College; M.A., Haverford College; Ph.D., State University of Iowa.
- PALAIS, HYMAN, Ph.D.-----Professor of History
 A.B., M.A., Ph.D., University of California at Los Angeles.
- PEITHMAN, ROSCOE E., M.S.-----Associate Professor of Physical Sciences
 B.Ed., Southern Illinois Normal University; M.S., University of Illinois; additional graduate study, Oregon State College.

- PLATT, IMOGENE B., M.A.-----Assistant Professor of Business Administration
A.B., M.A., University of Washington; additional graduate study, Stanford University.
- ROSCOE, CHARLES M., M.S.-----Assistant Professor of Physical Sciences
B.S., University of Oklahoma; M.S., Stanford University.
- SARBOE, PHILIP J., B.S.-----Lecturer in Physical Education and Director of Athletics
B.S., and additional graduate study, Washington State College.
- * SCHULER, MELVIN ALBERT, JR., M.F.A.-----Assistant Professor of Art
B.A. Ed., and M.F.A., California College of Arts and Crafts; summer of painting and study in Mexico and Norway.
- SMITH, ARTHUR M., Ph.D.-----Assistant Professor of Chemistry
A.B., San Francisco State College; M.A., Ph.D., Stanford University.
- SPAUD, STANLEY S., Ph.D.-----Assistant Professor of History
B.A., M.A., University of Idaho; additional graduate study, University of Oregon, University of Michigan, University of Wisconsin; Ph.D., University of Oregon.
- THOMPSON, SHIRLEY DUNCAN, M.A.-----Assistant Professor of Social Sciences
A.B., University of California; M.A., University of Chicago, School of Social Service Administration.
- TELONICHER, FRED, A.B.-----Associate Professor of Biological Sciences
A.B., Fresno State College; graduate study, Stanford University, and Hopkins Marine Station, Pacific Grove.
- TURNER, LAWRENCE E., Ph.D.-----Executive Dean
A.B., McPherson College; M.A., Ph.D., University of California.
- VAN DUZER, JOHN, M.A.-----Associate Professor of Speech and Drama
A.B., Humboldt State College; M.A., University of Southern California; study at Eastman School of Music, Rochester, New York; additional graduate study, Stanford University.
- WHITE, REGINALD LOUIS, Ed.D.-----Professor of English
B.A., First Class Honors in English, University of London, England; M.A., Northwestern University; Ed.D., Stanford University.
- WOODCOCK, JESSIE TURNER-----Business Manager
Graduate, Humboldt State Teachers College.

* Leave of absence 1951-52.

PART-TIME INSTRUCTORS

- DOLSON, JOHN G., A.B.-----Lecturer in Agriculture
A.B., University of California at Davis.
- FULLER, STEWART, D.V.M.-----Lecturer in Agriculture
D.V.M., Washington State College.
- JENKINS, R. HORACE, M.S.-----Professor of Industrial Education
B.S., M.S., Oregon State College; graduate, Central State Teachers College, Oklahoma, four-year classical course and three-year art and shop course; additional graduate study, Oswego State Normal School, University of California, University of Chicago, Columbia University, Stanford University.
- THOMPSON, ESTHER GRIFFITH-----Lecturer in Violin
Certificate in Theory and Violin (4 years), Yale University School of Music; studied violin under Richard Schliwen, Reginald Bland, Russell Keeney, and Hugo Kortschak; studied one year in Italy with Lena Fagioli; studied string ensemble with Emmeran Stoeber.

COLLEGE ELEMENTARY SCHOOL

- GRIFFITH, HARRY E., Ed.D.----Principal and Coordinator of Elementary Education
- CORNELIUS, SARAH R., M.A.-----Supervisor of Elementary Education
- HAGNE, HAZEL, M.A.-----Acting Supervisor of Elementary Education
A.B., Humboldt State College; M.A., Columbia University.
- * INGEBRITSON, KASPER I., Ed.D.-----Supervisor of Elementary Education
- BROWN, HONOR, A.B.,-----Supervising Teacher
A.B., Humboldt State College.
- COOPER, CHARLOTTE, A.B.,-----Supervising Teacher
A.B., Central Washington College of Education.
- KELLENBERGER, ELEANOR, A.B.,-----Supervising Teacher
A.B., Humboldt State College; graduate study, University of California at Los Angeles.
- MCDERMID, CHARLES G., A.B.,-----Supervising Teacher
A.B., University of Santa Clara; graduate study, Humboldt State College.
- MACPHERSON, HELEN C., A.B.,-----Supervising Teacher
A.B., George Peabody College.
- NORTON, EMMA, A.B.,-----Supervising Teacher
A.B., Humboldt State College.
- TELONICHER, MARGARET, A.B.,-----Supervising Teacher
A.B., Humboldt State College.
- WOODCOCK, CHARLES, A.B.,-----Supervising Teacher
A.B., Humboldt State College.
- WOODCOCK, NANA, B.S.,-----Supervising Teacher
B.S., University of Oregon.

* On leave of absence 1951-52.

INDEX

- A.B. degree (see Bachelor of Arts degree)
 Academic calendar, 4
 Academic honors (see Scholastic honors)
 Academic regulations, 22
 A cappella choir, 14
 Accounting courses, 139
 Accredited, 21
 Activities, 14, 15
 Administration credentials, 59
 Administrative officers, 157
 Admission to the College, 18-19
 Adolescence, Psychology of, 61
 Advanced standing (see Admission to the College)
 Advisers, 15
 Agriculture, 40
 Algebra, 129
 Allied Arts, 63
 Alpha Psi Omega, 14
 Alumni Association, 17
 American Government, 38-39, 145
 Required of A.B. degree candidates, 38-39
 Anatomy, 123
 Annette Parton Johnson Scholarship, 28
 Anthropology, 121
 Applied Psychology, 61
 Aptitude Test (see College Aptitude Test)
 Arcata Kiwanis Award, 33
 Arcata Rotary Club Scholarship, 29
 Art, 63
 A.B. degree in, 63
 Description of courses, 63
 General Secondary Credential in, 63
 Major and minor, 63
 Special Secondary Credential in, 63
 Associated Business Girls Award, 29
 Associated Students, 14
 Associated Women Students, 14
 Athletics, 14
 Auditors, 24, 26
 Auditing, course in, 149
 Audio-Visual Education, 56
 Awards (see Scholarships and Monetary awards)

 BACHELOR of Arts degrees, 38
 General requirements, 38
 Bachelor of Science degree, 38
 General requirements, 38
 Bacteriology course, 121
 Band, 83
 Biology courses, 117
 Major, 118
 Minor, 115, 119
 Board of Control of Student Body, 14
 Bookstore, 14
 Botany courses, 117
 Major, 118
 Minor, 119
 Breeding pens, 10
 Brizard Matthews Machinery Company Scholarship, 29
 Buildings, 10, 11
 Business Administration
 A.B. degree in, 137
 Description of courses, 137
 Major, 137
 Minor, 137
 Business and Professional Women's loan, 34
 Business education curriculum, 137

 CALENDAR
 Academic calendar, 4
 California, history of, 143
 California Congress of Parents and Teachers Scholarship, 32
 C. E. McCready Scholarship, 29
 Chemistry, 126
 Chi Sigma Epsilon, 14, 32
 Community Relations, 17
 Community Service, 17
 Cost Accounting, 149
 Counseling, 15
 Course numbering, 48
 Craig scholarships, 29
 Credentials, 49-51, 53-54, 58-59
 Administration and supervision, 49
 Elementary, curriculum for, 49
 General requirements, 49
 General statement, 50
 Junior high school, curriculum for, 49
 Kindergarten-Primary, curriculum for, 49
 Residence requirement, 38
 Secondary General, 49
 Special Secondary in
 Art, 63
 Business Education, 146
 Home Economics, 69
 Music, 78
 Physical Education, 92
 Speech Correction, 85
 Curricula, 35
 Degree, 35
 Lower Division, 35, 36, 40

 DEAN of
 Instruction, 45
 Students, 45
 Degree curricula classified, 35
 Art, 63
 Bachelor of Arts, 38
 Biological Sciences, 113
 Botany, 113
 Business Administration, 146
 Business Education, 146
 Economics, 144
 Education, 49-61
 English, 105
 Fisheries, 114
 General requirements for, 36
 Group major, 141
 History, 131
 Home Economics, 69
 Master of Arts, 36
 Music, 78
 Physical Education, 92
 Premedical Sciences, 113
 Secretarial Science, 139
 Social Sciences, 131
 Social Service, 131
 Speech, 85
 Speech and Dramatics, 85
 Speech-Radio, 85
 Wildlife Management, 113
 Zoology, 113
 Degrees (see Bachelor of Arts, degree curricula)
 Directory of personnel, 156
 Disqualification from College, 25
 Division, 47
 Education and Psychology, 49
 Fine and Applied Arts, 62
 Health and Physical Education, 92
 Language and Literature, 105
 Natural Sciences, 113
 Social Sciences, 131
 Divisional chairmen, 157
 Drafting, 71
 Dormitory, 10, 13
 Dr. Vernon L. Hunt Scholarship, 32
 Dramatics (see Speech and Dramatics)
 Dramatic activities, 15
 Dramatic workshop, 89
 Dramatics fraternity (see Alpha Psi Omega)

 ECONOMICS
 A.B. degree in Economics, 144
 Description of courses, 144
 Major, 133
 Minor, 134

- Education, 49-59
 - Description of courses, 55
 - (See also Credentials)
- Electronics, 127
- Elementary Credential (see Credentials)
- Elliott & Neilson Scholarship, 30
- Employment service, 27
 - (See also Placement service)
- Engineering, 128
- English, 105
 - A.B. degree in, 105
 - Description of courses, 108
 - Major, 106
 - Minor, 105
- Enrollment in classes (see Class enrollment)
- In the College (see Registration)
- Eureka Newspapers Award in Journalism, 33
- Expenses (see Living accommodations, Fees)
- Extension credit, 25
- FACULTY committees, 158
- Faculty personnel, 159
- Faculty Women's gift, 33
- Far Western Conference, 14
- Fees: occasional, required, student body, summer sessions, 26
- Fine and Applied Arts, 63
- Fish hatchery, 10
- Fisheries
 - B.S. degree in, 118
 - Description of courses, 118
- Foreign languages (see Modern languages)
- Foreign Students' Assistance Fund, 30
- Fortuna Rotary Club Scholarship, 30
- French, 111
- Freshmen Assemblies, 15
- Fundamentals: Teacher Training, 50
- GENERAL major (see Group major)
- General Regulations (see Academic Regulations)
- General Secondary Credentials, 50
- Geography courses, 149
- Geology course, 126
- Geometry (Plane), 129
- Glaser, Bell W., Scholarship, 29
- Glee clubs, 83
- Grades, 22
- Graduate Nurses, 102
- Graduation honors, 29
- Graduation requirements (see Bachelor of Arts, Bachelor of Education)
- Group major, 154
- Gymnasium, 10
- HATCHERY (see Fish hatchery)
- Health and Hygiene, 102
 - Description of courses, 103
 - Junior high school major, 103
 - Minor, 103
- Health examination, 15, 16
 - Service, 16
- Henry F. Brizard Memorial Scholarships, 30
- Hispanic America, course in, 142
- History, 141
 - A.B. degree in, 133
 - Description of courses, 141
 - Junior high school major, 140
 - Minor, 140
- Home Economics, 69
 - A.B. degree in, 69
 - Description of courses, 69
 - General Secondary Credential in, 69
 - Junior high school major, 69
 - Minor, 71
 - Special Secondary Credential in, 69, 71
- Honor points, 23
- Honors (see Scholastic honors)
- Hospitalization, 16
- Housing, 13
- Humboldt County Federation of Women's Clubs scholarships, 30
- Humboldt State College Advisory Board, 156
- Humboldt State Ski Club, 14
- Hygiene (see Health and Hygiene)
- Hydrobiology, 123
- ICHTHYOLOGY, 123
- Index of Scholarship (see Scholarship index)
- Industrial Education, 74
 - Description of courses, 75
 - Junior high school major, 75
 - Minor, 75
- Intramural Sports, 14
- JACKSON Loan Fund, 33
- J. H. Crothers Scholarship, 33
- Johnson, Annette Parton Scholarship, 28
- Journalism, 105, 107
- Junior High School Credential (see Credentials)
- Junior High School majors
 - Art, 65
 - Biology, 119
 - Economics, 140
 - English, 107
 - Health and Hygiene, 103
 - History, 140
 - Home Economics, 69
 - Industrial Education, 75
 - Mathematics, 129
 - Music, 79
 - Physical Education, 96
 - Social Sciences, 140
 - Speech and Dramatics, 87
- KINDERGARTEN-Primary Credential (see Credentials)
- Kiwanis Club Award (see Arcata Kiwanis Club Award)
- Kramer Memorial Scholarship, 31
- LANGUAGES (see Modern Languages)
- Language and Literature, Division of, 105
- Latin-American Relations, 150
- Legal Aspects of Education, 58
- Library, 11
- Librarianship, 44
- Living accommodations, 13
- Loan funds, 33
- Location of the College, 10
- Lower division courses, 35, 48
- Lower division curricula (see Curricula)
 - Agriculture, 41
 - Drafting, 74
 - General Business, 139
 - Journalism, 107
 - Photography, 127
 - Preagriculture, 41
 - Prearchitecture, 41
 - Pre dental, 41
 - Preengineering, 42
 - Preforestry, 43
 - Prelegal, 44
 - Prelibrary Science, 44
 - Premortuary Science, 44
 - Prenursing, 102
 - Preoptometry, 45
 - Prepharmacy, 45
 - Preveterinary, 45
 - Recreational Leadership, 91
 - Secretarial Training, 134
- "Lumberjack," 14
- MAHAN Scholarships, 31
- Majors, defined and listed, 39
- Marking system, 22
- Mathematics, 129
 - Description of courses, 129
 - Junior High School major, 129
 - Minor, 129

Matriculation from high school
 (see Admission to the College)
 To other institutions (see Transfer to
 other institutions)
 Men's Athletics, 14
 Meteorology course, 127
 Military Service, credit for, 19
 Minors, defined and listed 39
 Miscellaneous Awards, 33
 Modern languages, 111
 Description of courses, 111
 Minors, 111
 Mu Epsilon Psi, 14
 Music, 78
 A.B. degree in, 78
 Activities, 14, 80
 Description of courses, 81
 Majors, 79
 Minors, 80
 Private Lessons, 84
 Scholarships, 28
 General Secondary Credential, 78
 Special Secondary Credential, 78
 Musical organizations, 14, 83
 A cappella choir, 14
 Band, 83
 College chorus, 84
 Orchestra, 84
 Musicians' Union Scholarship, 31
 Natural sciences, 113
 Nelle Newby Brizard Memorial Fund, 31
 Nelson Hall, 10, 13
 Newman Club, 14
 Normal program, 23
 Note to prospective student, 8-9
 Numbering of courses (see Explanatory
 note)
 Nursing (see Pre-Nursing and Graduate
 Nurses)
 Nutrition, courses in, 72
 OFFICIAL Directory (see Directory of
 Personnel)
 Orchestra, 83
 Orientation, 59
 Organization of College, 47
 P. T. A. Scholarships, 32
 Personnel (see Directory of Personnel)
 Philosophy course, 150
 Photography courses, 127
 Two-year terminal curriculum, 65
 Physical Education, 92
 A.B. degree in, 93
 Club, 14
 Description of courses, 97
 Major, 93
 Minor, 96
 Physical education credential (see
 Credentials)
 Physical examination (see Health
 Examination)
 Physical science courses, 126
 Physics courses, 126
 Physiology course, 123
 Placement service, 17
 Play Writing, 89
 Political science courses, 150
 Practice teaching (see Student teaching)
 Preprofessional courses (see Lower
 Division Curricula)
 Premedical Curriculum, 117
 Prenursing Program, 102
 Prenursing Scholarship, 28
 Private lessons (Music), 84
 Probation, 25
 Program, Changes of, 24
 (See also Normal program)
 Psychology courses, 61
 Publications, Student, 14
 QUANTITATIVE Analysis course, 126
 Quota Club Scholarship, 31

RADIO
 A.B. degree in, 85
 Courses, 86
 Programs, 14
 Recreation, 14-15
 Recreational Leadership, 95
 Redwood Hall, 13
 Refunds, 27
 Registration in classes (see Class
 enrollment)
 In the College, 21
 Regulations (see Academic regulations)
 Reports to students, 24
 Residence requirements, 35, 38
 Rho Sigma, 14
 Robert W. Matthews Scholarship, 31
 Rotary Club loan fund, 33
 Rotary Club Scholarship, 29
 SCHEDULE of classes, 47
 Scholarship index, 23
 For credential candidates, 51
 For degree candidates, 39
 For students transferring to Humboldt,
 20
 (See also Probation and
 Disqualification)
 Scholarships and monetary awards, 28
 Scholastic honors, 28
 Science (see Natural sciences)
 Secondary Credential (see General
 Secondary Credential)
 Secretarial Science
 A.B. degree in, 139
 Major, 139
 Secretarial Training curriculum, 139
 Self help (see Student employment
 service)
 Semester honors, 28-29
 Semester unit (see Unit of Credit)
 "Sempervirens," 14
 Social-Economic Reform Movements
 course, 144
 Social life, 14
 Social Sciences, 131
 A.B. degree in, 132
 Description of courses, 132
 Majors, 132
 Minors, 136
 Social Service curriculum, 133
 Societies, 14
 Sociology courses, 151
 Soroptomist Club Scholarship, 32
 South Fork P. T. A. Scholarship, 32
 Spanish, 111
 Special Secondary Credentials
 Art, 63
 Business Education, 134
 Home Economics, 69
 Music, 78
 Physical Education, 94
 Speech Correction, 87
 Speech and Dramatics, 88
 A.B. degree in, 85
 Description of courses, 88
 Majors, 85
 Minors, 84, 86
 Speech-English, 85
 A.B. degree in, 85
 Speech-Radio, 85
 A.B. degree in, 85
 Speech Clinic, 87
 Speech Correction, 87
 Sports (see Athletics and Recreation)
 State Board of Education, 156
 Student activities (see Clubs and
 societies, Athletics)
 Government, 14
 Life, 13
 Programs (see Normal program)
 Student body fees, 27
 Student Body Government, 14
 Student organizations (see Clubs and
 Societies)

Student Teachers Club, 14
Student Teaching, 58
Subject A, 20
Summary of expenses, 27
Summer session, 21
Supervision Credential, 59

TABLE of Contents, 6-7
Testing Program, 15
Transfer to other institutions, 20

UNIT of credit, 22
Upper division courses, 48
U. S. History, 39
 Required of all Degree Candidates, 39

VARSITY Hall, 10, 13
Veterans, 16
Vocational Rehabilitation, 32

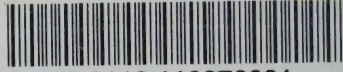
WILDLIFE management courses, 118
 B.S. degree in, 118
Withdrawal from College, 24
 From courses, 24
Women's Athletic Association, 14
Women's Athletics (see Intramural sports)
Women's Auxiliary to the Humboldt County Medical Society Scholarship, 32

YEAR book (see "Sempervirens")
Year course, 48

ZETA Eta Scholarship, 32
Zoology courses, 125
 Major in, 117
 Minor, 119

o

UNIVERSITY OF ILLINOIS-URBANA



3 0112 110876601